



(FILE 'HOME' ENTERED AT 18:52:24 ON 21 MAR 2002)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH, USPATFULL, JAPIO' ENTERED AT 18:52:45 ON 21 MAR 2002

	USPATFULL,	JAPIO' ENTERED AT 18:52:45 ON 21 MAR 2002	
L1	2/5589	S SALMONELLA	
L2	1054194	S MUTANTS OR MUTATIONS OR DELETIONS	
L3	474	S SALMONELLA VACCINES	
L4	30393	S FLAGELLA OR FLAGELLIN	
L5	18262	S SALMONELLA TYPHI	
L6	3872	S SALMONELLA PARATYPHI	
L7		S L1 AND L2	
L8		S L7 AND L3	
1.9	4039	S L2 AND L4	
L10		S L8 AND L9	

> s Salmonella and mutat?

28648 SALMONELLA AND MUTAT?

=> s l1 and flage?

1097 L1 AND FLAGE?

=> s 12 and vaccine?

110 L2 AND VACCINE?

=> d 13 ibib 1-110

ANSWER 1 OF 110 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

1997:105754 BIOSIS

DOCUMENT NUMBER:

PREV199799404957

TITLE:

Role of SefA subunit protein of SEF14 fimbriae in the

pathogenesis of Salmonella enterica serovar

enteritidis.

AUTHOR(S):

Ogunniyi, Abiodun D.; Kotlarski, Ieva; Morona, Renato;

Manning, Paul A. (1)

CORPORATE SOURCE:

(1) Microbial Pathogenesis Unit, Dep. Microbiol. Immunol.,

Univ. Adelaide, Adelaide, SA 5005 Australia

SOURCE:

Infection and Immunity, (1997) Vol. 65, No. 2, pp. 708-717.

ISSN: 0019-9567.

DOCUMENT TYPE: LANGUAGE:

Article English

ANSWER 2 OF 110 BIOSIS COPYRIGHT 2001 BIOSIS

ACCESSION NUMBER:

1994:226104 BIOSIS

DOCUMENT NUMBER:

PREV199497239104

TITLE:

Hypervariable region IV of Salmonella gene fliC-d

encodes a dominant surface epitope and a stabilizing factor

for functional flagella.

AUTHOR(S):

He, Xiao-Song; Rivkina, Marianne; Stocker, Bruce A. D.;

Robinson, William S. (1)

CORPORATE SOURCE:

(1) Dep. Med., Stanford Univ. Sch. Med., Stanford, CA 94305

USA

SOURCE:

Journal of Bacteriology, (1994) Vol. 176, No. 8, pp.

2406-2414.

ISSN: 0021-9193. Article

DOCUMENT TYPE:

English

LANGUAGE:

ANSWER 3 OF 110 BIOSIS COPYRIGHT 2001 BIOSIS 1994:77947 BIOSIS ACCESSION NUMBER: DOCUMENT NUMBER:

PREV199497090947

TITLE:

Genetically stable temperature-sensitive mutants of

Salmonella typhi induce protection in mice.

AUTHOR(S):

Hooke, Anne Morris (1); Cerquetti, M. Cristina; Zeligs, Barbara J.; Wang, Zhen; Hoberg, Kathryn; Bellanti, Joseph

CORPORATE SOURCE:

(1) Dep. Microbiol., Miami Univ., Oxford, OH 45056 USA

SOURCE:

Vaccine, (1993) Vol. 11, No. 14, pp. 1386-1389.

ISSN: 0264-410X.

DOCUMENT TYPE:

Article

LANGUAGE:

English

ANSWER 4 OF 110 CABA COPYRIGHT 2001 CABI ACCESSION NUMBER:

1998:158477 CABA

DOCUMENT NUMBER:

982214803

TITLE:

Establishment of a high-level expression system for

the Salmonella gene fliCi

AUTHOR:

Jiao XinAn; Zhang GuoQiang; Wen QiYi; Gao Song;

Zhang RuKuan; Liu XiuFan; Jiao, X. A.; Zhang, G. Q.;

Wen, Q. Y.; Gao, S.; Zhang, R. K.; Liu, X. F.

CORPORATE SOURCE: Faculty of Veterinary Medicine, Agricultural College

of Yangzhou University, Yangzhou, Jiangsu 225009,

China.

SOURCE: Chinese Journal of Veterinary Science, (1998) Vol.

18, No. 3, pp. 241-243. 9 ref.

DOCUMENT TYPE: Journal LANGUAGE:

Chinese SUMMARY LANGUAGE: English

ANSWER 5 OF 110 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1998:548895 CAPLUS

DOCUMENT NUMBER:

129:240533

TITLE:

Establishment of the high-level expression system for

Salmonella gene fliCi

AUTHOR(S): Jiao, Xin'an; Zhang, Guoqiang; Wen, Qiyi; Gao, Song; Zhang, Rukuan; Liu, Xiufan

CORPORATE SOURCE: Fac. Vet. Med., Agri. Coll. Yangzhou Univ., Yangzhou,

225009, Peop. Rep. China

SOURCE: Zhongguo Shouyi Xuebao (1998), 18(3), 241-243

CODEN: ZSXUF5; ISSN: 1005-4545 Zhongguo Shouyi Xuebao Bianjibu

DOCUMENT TYPE: Journal LANGUAGE:

PUBLISHER:

Chinese

ANSWER 6 OF 110 CAPLUS COPYRIGHT 2001 ACS L3

1997:98002 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 126:183570

TITLE: Role of SefA subunit protein of SEF14 fimbriae in the

pathogenesis of Salmonella enterica serovar

enteritidis

AUTHOR(S): Ogunniyi, Abiodun D.; Kotlarski, Ieva; Morona, Renato;

Manning, Paul A.

CORPORATE SOURCE: Microbiol. Pathogenesis Unit, Dep. Microbiol.

Immunol., Univ. Adelaide, Adelaide, 5005, Australia

SOURCE: Infect. Immun. (1997), 65(2), 708-717

CODEN: INFIBR; ISSN: 0019-9567 PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal LANGUAGE: English

L3 ANSWER 7 OF 110 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1994:406798 CAPLUS

DOCUMENT NUMBER: 121:6798

TITLE: Hypervariable region IV of Salmonella gene

fliCd encodes a dominant surface epitope and a stabilizing factor for functional flagella

AUTHOR(S): He, Xiao Song; Rivkina, Marianne; Stockler, Bruce A.

D.; Robinson, William S.

CORPORATE SOURCE: Sch. Med., Stanford Univ., Stanford, CA, 94305, USA

SOURCE: J. Bacteriol. (1994), 176(8), 2406-14

CODEN: JOBAAY; ISSN: 0021-9193

DOCUMENT TYPE: Journal LANGUAGE: English

L3ANSWER 8 OF 110 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1993:252767 CAPLUS

DOCUMENT NUMBER: 118:252767

TITLE: Live attenuated salmonellae: Oral

vaccines for salmonellosis and combined vaccines carrying heterologous antigens

AUTHOR(S): Hormaeche, Carlos E.; Dougan, Gordon; Chatfield, Steve

N.

CORPORATE SOURCE: Div. Microbiol. Parasitol., Dep. Pathol., Cambridge,

CB2 1QP, UK

SOURCE: FEMS Symp. (1992), 63(Release of Genetically Modified

Microorganisms--REGEM 2), 71-83 CODEN: FEMSDW; ISSN: 0163-9188

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

ANSWER 9 OF 110 CAPLUS COPYRIGHT 2001 ACS ACCESSION NUMBER: 1992:241920 CAPLUS

DOCUMENT NUMBER:

116:241920

TITLE:

Acid-tolerant Salmonella typhi, double aro mutants thereof, and use as an oral vaccine

for typhoid fever

INVENTOR(S):

PATENT ASSIGNEE(S):

Hone, David M.; Levine, Myron M. University of Maryland, Baltimore, USA

SOURCE:

LANGUAGE:

PCT Int. Appl., 104 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE ----------WO 9118092 A1 19911128 WO 1991-US3447 19910522

W: CA, JP

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE PRIORITY APPLN. INFO.: US 1990-527467 19900523

L3 ANSWER 10 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 97036545 EMBASE

DOCUMENT NUMBER:

1997036545

TITLE:

Role of SefA subunit protein of SEF14 fimbriae in the

pathogenesis of Salmonella enterica serovar

enteritidis.

AUTHOR:

Ogunniyi A.D.; Kotlarski I.; Morona R.; Manning P.A. CORPORATE SOURCE: P.A. Manning, Microbial Pathogenesis Unit, Dept. of

Microbiology and Immunology, University of Adelaide,

Adelaide, SA 5005, Australia

SOURCE: Infection and Immunity, (1997) 65/2 (708-717).

Refs: 67

ISSN: 0019-9567 CODEN: INFIBR

COUNTRY: DOCUMENT TYPE: FILE SEGMENT:

United States Journal; Article Microbiology 004

005 General Pathology and Pathological Anatomy

048 Gastroenterology

LANGUAGE:

English

SUMMARY LANGUAGE: English

L3 ANSWER 11 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

94124106 EMBASE

DOCUMENT NUMBER:

1994124106

TITLE:

Hypervariable region IV of Salmonella gene

fliC(d) encodes a dominant surface epitope and a

stabilizing factor for functional flagella.

AUTHOR: CORPORATE SOURCE: He X.-S.; Rivkina M.; Stocker B.A.D.; Robinson W.S. Department of Medicine, Stanford Univ. School of

Medicine, Stanford, CA 94305, United States

SOURCE:

Journal of Bacteriology, (1994) 176/8 (2406-2414).

ISSN: 0021-9193 CODEN: JOBAAY

COUNTRY:

United States Journal; Article

DOCUMENT TYPE: FILE SEGMENT:

004 Microbiology

LANGUAGE:

English

SUMMARY LANGUAGE: English

L3 ANSWER 12 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 93357656 EMBASE

DOCUMENT NUMBER: 1993357656

TITLE: Genetically stable temperature-sensitive mutants of

Salmonella typhi induce protection in mice.

AUTHOR: Morris Hooke A.; Cerquetti M.C.; Zeligs B.J.; Wang Z.;

Hoberg K.; Bellanti J.A.

CORPORATE SOURCE: Department of Microbiology, Miami University, Oxford, OH

40506, United States

SOURCE: Vaccine, (1993) 11/14 (1386-1389).

ISSN: 0264-410X CODEN: VACCDE

COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology

017 Public Health, Social Medicine and Epidemiology

026 Immunology, Serology and Transplantation

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

L3 ANSWER 13 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 91278636 EMBASE

DOCUMENT NUMBER: 1991278636

TITLE: Live attenuated salmonella vaccines and

their potential as oral combined vaccines

carrying heterologous antigens.

AUTHOR: Hormaeche C.E.

CORPORATE SOURCE: Div. Microbiology/Parasitology, Department of Pathology,

Tennis Court Road, Cambridge CB2 1LP, United Kingdom

SOURCE: Journal of Immunological Methods, (1991) 142/1 (113-120).

ISSN: 0022-1759 CODEN: JIMMBG

COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 004 Microbiology

026 Immunology, Serology and Transplantation

037 Drug Literature Index

LANGUAGE: English
SUMMARY LANGUAGE: English

L3 ANSWER 14 OF 110 EMBASE COPYRIGHT 2001 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 91027409 EMBASE

DOCUMENT NUMBER: 1991027409

TITLE: Aromatic-dependent Salmonella as live

vaccine presenters of foreign epitopes as inserts

in flagellin.

AUTHOR: Stocker B.A.D.

CORPORATE SOURCE: Department of Microbiology and Immunology, Stanford

University School of Medicine, Stanford, CA 94305-5402,

United States

SOURCE: Research in Microbiology, (1990) 141/7-8 (787-796).

ISSN: 0923-2508 CODEN: RMCREW

COUNTRY: France

DOCUMENT TYPE: Journal; Conference Article

FILE SEGMENT: 004 Microbiology

026 Immunology, Serology and Transplantation

LANGUAGE: English SUMMARY LANGUAGE: English

L3 ANSWER 15 OF 110 LIFESCI COPYRIGHT 2001 CSA

ACCESSION NUMBER: 97:47013 LIFESCI

TITLE: Role of SefA subunit protein of SEF14 fimbriae in the

pathogenesis of Salmonella enterica serovar

enteritidis

AUTHOR: Ogunniyi, A.D.; Kotlarski, I.; Morona, R.; Manning, P.A.*

CORPORATE SOURCE: Microbial Pathogenesis Unit, Dep. Microbiol. and Immun.,

Univ. Adelaide, Adelaide, S.A. 5005, Australia

SOURCE: INFECT. IMMUN., (1997) vol. 65, no. 2, pp. 708-717.

ISSN: 0019-9567.

DOCUMENT TYPE: Journal

FILE SEGMENT:

LANGUAGE: English SUMMARY LANGUAGE: English

ANSWER 16 OF 110 LIFESCI COPYRIGHT 2001 CSA

ACCESSION NUMBER: 97:46960 LIFESCI

TITLE: Safety of live oral Salmonella typhi

vaccine strains with deletions in htrA and aroC

aroD and immune response in humans

Tacket, C.O.; Sztein, M.B.; Losonsky, G.A.; Wasserman, AUTHOR:

S.S.; Nataro, J.P.; Edelman, R.; Pickard, D.; Dougan, G.;

Chatfield, S.N.; Levine, M.M.

CORPORATE SOURCE: Cent. for Vaccine Dev., 685 West Baltimore St., Baltimore,

MD, USA

SOURCE: INFECT. IMMUN., (1997) vol. 65, no. 2, pp. 452-456.

ISSN: 0019-9567.

DOCUMENT TYPE: Journal FILE SEGMENT: J; W3 LANGUAGE: English SUMMARY LANGUAGE: English

ANSWER 17 OF 110 LIFESCI COPYRIGHT 2001 CSA

ACCESSION NUMBER: 94:95291 LIFESCI

TITLE: Genetically stable temperature-sensitive mutants of

Salmonella typhi induce protection in mice

AUTHOR: Hooke, A.M.; Cerquetti, M.C.; Zeligs, B.J.; Wang, Zhen;

Hoberg, K.; Bellanti, J.A.

CORPORATE SOURCE: Dep. Microbiol., Miami Univ., Oxford, OH 45056, USA

SOURCE:

VACCINE, (1993) vol. 11, no. 14, pp. 1386-1389. ISSN: 0264-410X.

DOCUMENT TYPE:

Journal FILE SEGMENT: J; F; W3 LANGUAGE: English SUMMARY LANGUAGE: English

ANSWER 18 OF 110 LIFESCI COPYRIGHT 2001 CSA

ACCESSION NUMBER:

94:75569 LIFESCI

TITLE:

Hypervariable region IV of salmonella gene fliC super(d) encodes a dominant surface epitope and a

stabilizing factor for functional flagella

AUTHOR: He, X.-S.; Rivkina, M.; Stocker, B.A.D.; Robinson, W.S.* CORPORATE SOURCE: Dep. Med., Stanford Univ. Sch. Med., Stanford, CA 94305,

USA

SOURCE: J. BACTERIOL., (1994) vol. 176, no. 8, pp. 2406-2414.

ISSN: 0021-9193.

DOCUMENT TYPE:

Journal

FILE SEGMENT: LANGUAGE:

English

SUMMARY LANGUAGE: English

ANSWER 19 OF 110 LIFESCI COPYRIGHT 2001 CSA

ACCESSION NUMBER: 94:28626 LIFESCI

TITLE: Live attenuated Salmonella vaccines and their potential as oral combined vaccines

carrying heterologous antigens

AUTHOR: Hormaeche, C.E.

CORPORATE SOURCE: Div. Microbiol. and Parasitol., Dep. Pathol., Tennis Court Rd., Cambridge CB2 1LP, UK

SOURCE: J. IMMUNOL. METHODS, (1991) vol. 142, no. 1, pp. 113-120.

ISSN: 0022-1759.

DOCUMENT TYPE:

Journal FILE SEGMENT: F; J LANGUAGE: English SUMMARY LANGUAGE: English

ANSWER 20 OF 110 MEDLINE

1999307226 ACCESSION NUMBER: MEDLINE

DOCUMENT NUMBER:

99307226 PubMed ID: 10377147 Salmonella typhi flagella are potent

TITLE:

inducers of proinflammatory cytokine secretion by human

monocytes.

AUTHOR:

Wyant T L; Tanner M K; Sztein M B

CORPORATE SOURCE: Center for Vaccine Development, Departments of Pediatrics

and Medicine, University of Maryland, Baltimore, Maryland

21201, USA.

CONTRACT NUMBER:

RO1 AI36525 (NIAID)

SOURCE:

INFECTION AND IMMUNITY, (1999 Jul) 67 (7) 3619-24.

Journal code: GO7; 0246127. ISSN: 0019-9567.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199907

ENTRY DATE:

Entered STN: 19990730

Last Updated on STN: 19990730 Entered Medline: 19990722

ANSWER 21 OF 110 MEDLINE

ACCESSION NUMBER:

97162347 MEDLINE

DOCUMENT NUMBER:

97162347 PubMed ID: 9009334

TITLE:

Role of SefA subunit protein of SEF14 fimbriae in the

pathogenesis of Salmonella enterica serovar

Enteritidis.

AUTHOR:

Ogunniyi A D; Kotlarski I; Morona R; Manning P A

CORPORATE SOURCE:

Department of Microbiology and Immunology, The University

of Adelaide, South Australia.

SOURCE:

INFECTION AND IMMUNITY, (1997 Feb) 65 (2) 708-17.

Journal code: GO7; 0246127. ISSN: 0019-9567.

PUB. COUNTRY:

United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals GENBANK-X98516

OTHER SOURCE: ENTRY MONTH:

199702

ENTRY DATE:

Entered STN: 19970306

Last Updated on STN: 19970306 Entered Medline: 19970221

ANSWER 22 OF 110 MEDLINE

ACCESSION NUMBER:

94209244 MEDLINE

DOCUMENT NUMBER:

94209244 PubMed ID: 7512552

TITLE:

Hypervariable region IV of Salmonella gene fliCd

encodes a dominant surface epitope and a stabilizing factor

for functional flagella.

AUTHOR:

He X S; Rivkina M; Stocker B A; Robinson W S

CORPORATE SOURCE:

Department of Medicine, Stanford University School of

Medicine, California 94305.

CONTRACT NUMBER:

AI-13526 (NIAID)

SOURCE:

DK-38707 (NIDDK)

JOURNAL OF BACTERIOLOGY, (1994 Apr) 176 (8) 2406-14.

Journal code: HH3; 2985120R. ISSN: 0021-9193.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199405

ENTRY DATE: Entered STN: 19940526

Last Updated on STN: 19960129 Entered Medline: 19940513

L3 ANSWER 23 OF 110 MEDLINE

ACCESSION NUMBER: 94144247 MEDLINE

DOCUMENT NUMBER: 94144247 PubMed ID: 8310758

TITLE: Genetically stable temperature-sensitive mutants of

Salmonella typhi induce protection in mice.

AUTHOR: Hooke A M; Cerquetti M C; Zeligs B J; Wang Z; Hoberg K;

Bellanti J A

CORPORATE SOURCE: International Center for Interdisciplinary Studies of

Immunology, Georgetown University School of Medicine,

Washington, DC 20007.

SOURCE: VACCINE, (1993 Nov) 11 (14) 1386-9.

Journal code: X60; 8406899. ISSN: 0264-410X.

PUB. COUNTRY: ENGLAND: United Kingdom

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199403

ENTRY DATE: Entered STN: 19940330

Last Updated on STN: 19940330 Entered Medline: 19940311

L3 ANSWER 24 OF 110 MEDLINE

ACCESSION NUMBER: 92013164 MEDLINE

DOCUMENT NUMBER: 92013164 PubMed ID: 1919015

TITLE: Live attenuated Salmonella vaccines and

their potential as oral combined vaccines

carrying heterologous antigens.

AUTHOR: Hormaeche C E

CORPORATE SOURCE: Department of Pathology, Cambridge, U.K.

SOURCE: JOURNAL OF IMMUNOLOGICAL METHODS, (1991 Aug 28) 142 (1)

113-20. Ref: 92

Journal code: IFE; 1305440. ISSN: 0022-1759.

PUB. COUNTRY: Netherlands

Journal; Article; (JOURNAL ARTICLE)

General Review; (REVIEW)

(REVIEW, ACADEMIC)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199111

ENTRY DATE: Entered STN: 19920124

Last Updated on STN: 19920124 Entered Medline: 19911112

L3 ANSWER 25 OF 110 MEDLINE

ACCESSION NUMBER: 91326956 MEDLINE

DOCUMENT NUMBER: 91326956 PubMed ID: 1714093

TITLE: Aromatic-dependent Salmonella as live

vaccine presenters of foreign epitopes as inserts

in flagellin.

AUTHOR: Stocker B A

CORPORATE SOURCE: Department of Microbiology and Immunology, Stanford

University School of Medicine, CA 94305-5402.

CONTRACT NUMBER: AI-18872 (NIAID)

AI-27722 (NIAID)

SOURCE: RESEARCH IN MICROBIOLOGY, (1990 Sep-Oct) 141 (7-8) 787-96.

Journal code: R6F; 8907468. ISSN: 0923-2508.

PUB. COUNTRY:

France

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

English

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

199109

ENTRY DATE:

Entered STN: 19910929

Last Updated on STN: 19960129 Entered Medline: 19910909

L3 ANSWER 26 OF 110 MEDLINE

ACCESSION NUMBER: DOCUMENT NUMBER:

76274022

76274022

PubMed ID: 60853

TITLE:

[Live enteric typhoid vaccine consisting of a

MEDLINE

Vi-negative double-dependent mutant of S. typhi and a

Vi-positive strain of Citrobacter].

Eksperimental'nye issledovaniia zhivoi enteral'noi vaktsiny protiv briushnogo tifa, sostoiashchei iz Vi-negativnogo dvuzavisimogo mutanta S. typhi i Vi-pozitivnogo shtamma

Citrobacter.

AUTHOR: SOURCE:

Pershin B B; Shuster B Iu; Maganet L S; Tolcheev Iu D ZHURNAL MIKROBIOLOGII, EPIDEMIOLOGII I IMMUNOBIOLOGII,

(1976 Jan) (1) 35-40.

Journal code: Y90; 0415217. ISSN: 0372-9311.

PUB. COUNTRY:

USSR

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE:

Russian

FILE SEGMENT:

Priority Journals

ENTRY MONTH:

197611

ENTRY DATE:

Entered STN: 19900313

Last Updated on STN: 19970203 Entered Medline: 19761101

L3 ANSWER 27 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER: 2001:325290 SCISEARCH

THE GENUINE ARTICLE: 422EF

TITLE:

Antibody response against Escherichia coli heat-stable

enterotoxin expressed as fusions to flagellin

AUTHOR:

Pereira C M (Reprint); Guth B E C; Sbrogio-Almeida M E;

Castilho B A

CORPORATE SOURCE:

Univ Fed Sao Paulo, Escola Paulista Med, Dept Microbiol Imunol & Parasitol, Rua Botucatu 862, BR-04023062 Sao Paulo, Brazil (Reprint); Univ Fed Sao Paulo, Escola Paulista Med, Dept Microbiol Imunol & Parasitol, BR-04023062 Sao Paulo, Brazil; Inst Butantan, Div Desenvolvimento Tecnol & Prod, BR-05503900 Sao Paulo,

Brazil

COUNTRY OF AUTHOR:

Brazil

SOURCE:

MICROBIOLOGY-UK, (APR 2001) Vol. 147, Part 4, pp. 861-867. Publisher: SOC GENERAL MICROBIOLOGY, MARLBOROUGH HOUSE, BASINGSTOKE RD, SPENCERS WOODS, READING RG7 1AE, BERKS,

ENGLAND.

ISSN: 1350-0872. Article; Journal

DOCUMENT TYPE: LANGUAGE:

English

REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L3 ANSWER 28 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER:

1998:417067 SCISEARCH

THE GENUINE ARTICLE: ZP880

TITLE:

Distinct roles of an alternative sigma factor during both free-swimming and colonizing phases of the Vibrio cholerae

pathogenic cycle

AUTHOR:

Klose K E; Mekalanos J J (Reprint)

CORPORATE SOURCE:

HARVARD UNIV, SCH MED, DEPT MICROBIOL & MOL GENET, 200 LONGWOOD AVE, BOSTON, MA 02115 (Reprint); HARVARD UNIV, SCH MED, DEPT MICROBIOL & MOL GENET, BOSTON, MA 02115; HARVARD UNIV, SCH MED, SHIPLEY INST MED, BOSTON, MA 02115

COUNTRY OF AUTHOR:

SOURCE:

MOLECULAR MICROBIOLOGY, (MAY 1998) Vol. 28, No. 3, pp.

501-520.

Publisher: BLACKWELL SCIENCE LTD, P O BOX 88, OSNEY MEAD,

OXFORD OX2 ONE, OXON, ENGLAND.

ISSN: 0950-382X.

DOCUMENT TYPE:

Article; Journal

FILE SEGMENT: LANGUAGE:

LIFE English

REFERENCE COUNT:

73

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ANSWER 29 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER:

97:114525 SCISEARCH

THE GENUINE ARTICLE: WE900

TITLE:

Role of SefA subunit protein of SEF14 fimbriae in the

pathogenesis of Salmonella enterica serovar

enteritidis

AUTHOR:

Ogunniyi A D; Kotlarski I; Morona R; Manning P A (Reprint)

UNIV ADELAIDE, DEPT MICROBIOL & IMMUNOL, MICROBIAL

PATHOGENESIS UNIT, ADELAIDE, SA 5005, AUSTRALIA (Reprint);

UNIV ADELAIDE, DEPT MICROBIOL & IMMUNOL, MICROBIAL PATHOGENESIS UNIT, ADELAIDE, SA 5005, AUSTRALIA

COUNTRY OF AUTHOR:

CORPORATE SOURCE:

SOURCE:

AUSTRALIA INFECTION AND IMMUNITY, (FEB 1997) Vol. 65, No. 2, pp.

708-717.

Publisher: AMER SOC MICROBIOLOGY, 1325 MASSACHUSETTS

AVENUE, NW, WASHINGTON, DC 20005-4171.

ISSN: 0019-9567.

DOCUMENT TYPE:

Article; Journal LIFE

FILE SEGMENT: LANGUAGE:

English

REFERENCE COUNT:

67

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ANSWER 30 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER:

94:253849 SCISEARCH

THE GENUINE ARTICLE: NG717

TITLE:

HYPERVARIABLE REGION-IV OF SALMONELLA GENE

FLIC(D) ENCODES A DOMINANT SURFACE EPITOPE AND A

STABILIZING FACTOR FOR FUNCTIONAL FLAGELLA

AUTHOR: CORPORATE SOURCE: HE X S; RIVKINA M; STOCKER B A D; ROBINSON W S (Reprint) STANFORD UNIV, SCH MED, DEPT MED, STANFORD, CA, 94305 (Reprint); STANFORD UNIV, SCH MED, DEPT MED, STANFORD, CA, 94305; STANFORD UNIV, SCH MED, DEPT MICROBIOL & IMMUNOL,

STANFORD, CA, 94305

COUNTRY OF AUTHOR:

SOURCE:

JOURNAL OF BACTERIOLOGY, (APR 1994) Vol. 176, No. 8, pp.

2406-2414.

ISSN: 0021-9193. Article; Journal

DOCUMENT TYPE: FILE SEGMENT:

LIFE

LANGUAGE:

ENGLISH

REFERENCE COUNT:

38

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ANSWER 31 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER: 93:702670 SCISEARCH

THE GENUINE ARTICLE: MH268

TITLE: GENETICALLY STABLE TEMPERATURE-SENSITIVE MUTANTS OF

SALMONELLA-TYPHI INDUCE PROTECTION IN MICE

AUTHOR: HOOKE A M (Reprint); CERQUETTI M C; ZELIGS B J; WANG Z;

HOBERG K; BELLANTI J A

CORPORATE SOURCE: GEORGETOWN UNIV, SCH MED, DEPT PEDIAT, WASHINGTON, DC,

20007; GEORGETOWN UNIV, SCH MED, DEPT MICROBIOL,

WASHINGTON, DC, 20007

COUNTRY OF AUTHOR: USA

SOURCE: VACCINE, (NOV 1993) Vol. 11, No. 14, pp. 1386-1389.

ISSN: 0264-410X.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE; AGRI LANGUAGE: ENGLISH

REFERENCE COUNT: 26

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ANSWER 32 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER: 91:502382 SCISEARCH

THE GENUINE ARTICLE: GD761

TITLE:

LIVE ATTENUATED SALMONELLA VACCINES

AND THEIR POTENTIAL AS ORAL COMBINED VACCINES

CARRYING HETEROLOGOUS ANTIGENS

AUTHOR: HORMAECHE C E (Reprint)

DEPT PATHOL, DIV MICROBIOL & PARASITOL, TENNIS COURT RD, CORPORATE SOURCE:

CAMBRIDGE CB2 1LP, ENGLAND (Reprint)

COUNTRY OF AUTHOR: **ENGLAND**

SOURCE: JOURNAL OF IMMUNOLOGICAL METHODS, (1991) Vol. 142, No. 1, pp. 113-120.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE LANGUAGE: ENGLISH REFERENCE COUNT: 92

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ANSWER 33 OF 110 SCISEARCH COPYRIGHT 2001 ISI (R)

ACCESSION NUMBER: 91:375345 SCISEARCH

THE GENUINE ARTICLE: FU443

TITLE: A FLAGELLA-LESS MUTANT OF BORRELIA-BURGDORFERI -

STRUCTURAL, MOLECULAR, AND INVITRO FUNCTIONAL-

CHARACTERIZATION

AUTHOR: SADZIENE A; THOMAS D D; BUNDOC V G; HOLT S C; BARBOUR A G

(Reprint)

CORPORATE SOURCE: UNIV TEXAS, HLTH SCI CTR, DEPT MED, DIV INFECT DIS, SAN

ANTONIO, TX, 78284; UNIV TEXAS, HLTH SCI CTR, DEPT MICROBIOL, SAN ANTONIO, TX, 78284; VILNIUS EXPTL & CLIN MED RES INST, VILNIUS 23200, USSR; WAKE FOREST UNIV, BOWMAN GRAY SCH MED, DEPT MICROBIOL & IMMUNOL, WINSTON

SALEM, NC, 27103; UNIV TEXAS, HLTH SCI CTR, DEPT

PERIODONT, SAN ANTONIO, TX, 78284

COUNTRY OF AUTHOR: USA; USSR

SOURCE: JOURNAL OF CLINICAL INVESTIGATION, (1991) Vol. 88, No. 1,

pp. 82-92.

DOCUMENT TYPE: Article; Journal

FILE SEGMENT: LIFE LANGUAGE: ENGLISH

REFERENCE COUNT: 43

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ANSWER 34 OF 110 USPATFULL

ACCESSION NUMBER: 2001:97431 USPATFULL

TITLE: Attenuated microorganism strains and their uses

INVENTOR(S): Haefliger, Denise N., Lausanne, Switzerland Kraehenbuhl, Jean-Pierre, Rivaz, Switzerland PATENT ASSIGNEE(S): BTG International Limited, London, United Kingdom

(non-U.S. corporation)

	NUMBER KIND DATE
PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:	US 6251406 B1 20010626 US 1999-413807 19991007 (9) Division of Ser. No. US 1999-288861, filed on 9 Apr 1999 Continuation of Ser. No. WO 1997-GB2740, filed on 7 Oct 1997
	NUMBER DATE
PRIORITY INFORMATION: DOCUMENT TYPE: PRIMARY EXAMINER: LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: LINE COUNT:	GB 1996-21091 19961009 Utility Salimi, Ali R.
L3 ANSWER 35 OF 110 ACCESSION NUMBER: TITLE:	2001:93350 USPATFULL Chromosomally-encoded membrane protein of borrelia
<pre>INVENTOR(S): PATENT ASSIGNEE(S):</pre>	Durgdorferi Aron, Lieselotte, Hartsdale, NY, United States Cabello, Felipe, Hartsdale, NY, United States Godfrey, Henry P., Scarsdale, NY, United States Schwartz, Ira, Spring Valley, NY, United States New York Medical College, Valhalla, NY, United States
	(U.S. corporation) NUMBER KIND DATE
PATENT INFORMATION: APPLICATION INFO.: DOCUMENT TYPE: PRIMARY EXAMINER: LEGAL REPRESENTATIVE: NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: LINE COUNT:	US 6248583 B1 20010619 US 1994-313412 19940927 (8) Utility Allen, Marianne P. Nixon Peabody LLP 8 1 4 Drawing Figure(s); 4 Drawing Page(s) 1285
L3 ANSWER 36 OF 110 ACCESSION NUMBER: TITLE: INVENTOR(S): PATENT ASSIGNEE(S):	USPATFULL 2001:93284 USPATFULL Decorin binding protein compositions and methods of use Guo, Betty P., Boston, MA, United States Hook, Magnus, Houston, TX, United States The Texas A & M University System, College Station, TX, United States (U.S. corporation)
	NUMBER KIND DATE
PATENT INFORMATION:	US 6248517 B1 20010619 WO 9634106 19961031
APPLICATION INFO.:	US 1997-945476 19971224 (8) WO 1996-US5886 19960424 19971224 PCT 371 date 19971224 PCT 102(e) date
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1996-589711, filed on 22 Jan 1996, now patented, Pat. No. US 5853987 Continuation-in-part of Ser. No. US 1995-427023, filed on 24 Apr 1995, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Zitomer, Stephanie W..

LEGAL REPRESENTATIVE: Williams, Morgan and Amerson NUMBER OF CLAIMS: 57

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 42 Drawing Figure(s); 28 Drawing Page(s)

LINE COUNT: 4945

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 37 OF 110 USPATFULL

ACCESSION NUMBER: 2001:67794 USPATFULL

TITLE:

Human respiratory syncytial virus peptides with

antifusogenic and antiviral activities

INVENTOR(S):

Barney, Shawn O'Lin, Cary, NC, United States Lambert, Dennis Michael, Cary, NC, United States Petteway, Stephen Robert, Cary, NC, United States

PATENT ASSIGNEE(S):

Trimeris, Inc., Durham, NC, United States (U.S.

corporation)

NUMBER KIND DATE _______

PATENT INFORMATION:

US 6228983 B1 20010508 US 1995-485264 19950607 (8)

APPLICATION INFO.: RELATED APPLN. INFO.:

Division of Ser. No. US 1995-470896, filed on 6 Jun

1995 Continuation-in-part of Ser. No. US 1994-360107, filed on 20 Dec 1994 Continuation-in-part of Ser. No.

US 1994-255208, filed on 7 Jun 1994

Continuation-in-part of Ser. No. US 1993-73028, filed on 7 Jun 1993, now patented, Pat. No. US 5464933

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Scheiner, Laurie ASSISTANT EXAMINER: Parkin, Jeffrey S. PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Pennie & Edmonds LLP

NUMBER OF CLAIMS: 62 EXEMPLARY CLAIM:

1

NUMBER OF DRAWINGS: 84 Drawing Figure(s); 83 Drawing Page(s)

LINE COUNT:

32166

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 38 OF 110 USPATFULL

ACCESSION NUMBER: 2001:67646 USPATFULL

TITLE: INVENTOR(S): Decorin binding protein compositions Guo, Betty, Houston, TX, United States

PATENT ASSIGNEE(S):

Hook, Magnus, Houston, TX, United States The Texas A & M Unversity System, College Station, TX,

United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: APPLICATION INFO.:

US 6228835 B1 20010508 US 1998-221938 19981228 19981228 (9)

RELATED APPLN. INFO.:

Division of Ser. No. US 1996-589711, filed on 22 Jan 1996, now patented, Pat. No. US 5853987, issued on 29

Dec 1998 Continuation-in-part of Ser. No. US 1995-427023, filed on 24 Apr 1995, now abandoned Utility

DOCUMENT TYPE:

Zitomer, Stephanie W.

LEGAL REPRESENTATIVE: Williams, Morgan and Amerson

NUMBER OF CLAIMS:

24

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

PRIMARY EXAMINER:

25 Drawing Figure(s); 14 Drawing Page(s)

LINE COUNT:

4504

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 39 OF 110 USPATFULL

ACCESSION NUMBER: 2001:55947 USPATFULL

TITLE:

Methods and products for stimulating the immune system

using immunotherapeutic oligonucleotides and cytokines

INVENTOR(S): Krieg, Arthur M., Iowa City, IA, United States

Weiner, George, Iowa City, IA, United States

PATENT ASSIGNEE(S): University of Iowa Research Foundation, Iowa City, IA,

United States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 6218371 B1 20010417 US 1999-286098 19990402

APPLICATION INFO.: 19990402 (9)

> NUMBER DATE -----

PRIORITY INFORMATION: US 1998-80729 19980403 (60)

DOCUMENT TYPE: ASSISTANT EXAMINER: Yucel, Remy LEGAL REPORTED

Utility

LEGAL REPRESENTATIVE: Wolf, Greenfield & Sacks, P.C.

NUMBER OF CLAIMS: 23

1

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 9 Drawing Page(s)

LINE COUNT:

2746

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 40 OF 110 USPATFULL

ACCESSION NUMBER: 2001:51579 USPATFULL

TITLE:

DbpA compositions

INVENTOR(S):

Guo, Betty P., Boston, MA, United States Hook, Magnus, Houston, TX, United States

PATENT ASSIGNEE(S):

Texas A & M University System, College Station, TX,

United States (U.S. corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 6214355 B1 20010410 WO 9727301 19970731 APPLICATION INFO.: US 1998-117257

19970731 19980722 (9) 19961022 WO 1996-US17081

19981029 PCT 371 date 19981029 PCT 102(e) date

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 945476

Continuation-in-part of Ser. No. US 1996-589711, filed on 22 Jan 1996, now patented, Pat. No. US 5853987, issued on 29 Dec 1998 Continuation-in-part of Ser. No. US 1995-427023, filed on 24 Apr 1995, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Zitomer, Stephanie W.

LEGAL REPRESENTATIVE: Williams, Morgan and Amerson

NUMBER OF CLAIMS: 39

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 34 Drawing Figure(s); 31 Drawing Page(s)

LINE COUNT: 5444

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 41 OF 110 USPATFULL

ACCESSION NUMBER: 2001:40233 USPATFULL

TITLE:

INVENTOR(S):

66 kDa antigen from Borrelia Bergstom, Sven, Umea, Sweden

Barbour, Alan George, Irvine, CA, United States

PATENT ASSIGNEE(S): Symbicom Aktiebolag, Umea, Sweden (non-U.S.

corporation)

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NUMBER KIND DATE
                        ------
 PATENT INFORMATION:
                       US 6204018 B1 20010320 WO 9535379 19951228
                       WO 9535379
                                        19951228
 APPLICATION INFO.:
                       US 1997-750494
                                             19970612
                       WO 1995-US7665
                                             19950619
                                             19970612 PCT 371 date
                                             19970612 PCT 102(e) date
 RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1994-262220, filed
                       on 20 Jun 1994, now patented, Pat. No. US 6054296
 DOCUMENT TYPE:
                       Utility
 PRIMARY EXAMINER:
                       Minnifield, Nita M.
 LEGAL REPRESENTATIVE: Frommer Lawrence & Haug LLP, Frommer, William S.,
                       Kolawski, Thomas J.
 NUMBER OF CLAIMS:
 EXEMPLARY CLAIM:
 NUMBER OF DRAWINGS:
                       5 Drawing Figure(s); 5 Drawing Page(s)
 LINE COUNT:
                       2159
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
     ANSWER 42 OF 110 USPATFULL
 ACCESSION NUMBER:
                       2001:40219 USPATFULL
 TITLE:
                       Immunodiagnostic test for enterohemorrhagic Escherichia
                       coli infection
 INVENTOR(S):
                       Kaper, James B., Pasadena, MD, United States
                       Jarvis, Karen, Arnold, MD, United States
 PATENT ASSIGNEE(S):
                       University of Maryland, Baltimore, Baltimore, MD,
                       United States (U.S. corporation)
                          NUMBER KIND DATE
                       US 6204004 B1 20010320
PATENT INFORMATION:
APPLICATION INFO.:
                      US 1997-821872
                                           19970321 (8)
DOCUMENT TYPE:
                      Utility
PRIMARY EXAMINER:
                      Smith, Lynette R. F.
ASSISTANT EXAMINER:
                      Portner, Ginny Allen
LEGAL REPRESENTATIVE: Smith, Chalin A., Marks, David L.
NUMBER OF CLAIMS:
                      12
EXEMPLARY CLAIM:
                      1
NUMBER OF DRAWINGS:
                      9 Drawing Figure(s); 7 Drawing Page(s)
LINE COUNT:
                      970
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
    ANSWER 43 OF 110 USPATFULL
ACCESSION NUMBER:
                      2001:25436 USPATFULL
TITLE:
                      Attenuated mutants of salmonella which
                      constitutively express the Vi antigen
INVENTOR(S):
                      Noriega, Fernando R., Baltimore, MD, United States
                      Sztein, Marcelo B., Columbia, MD, United States
                      Levine, Myron M., Columbia, MD, United States
PATENT ASSIGNEE(S):
                      University of Maryland, Baltimore, Baltimore, MD,
                      United States (U.S. corporation)
                          NUMBER KIND DATE
                      PATENT INFORMATION:
                      US 6190669 B1 20010220
APPLICATION INFO.:
                      US 1998-76761
                                          19980513 (9)
DOCUMENT TYPE:
                      Utility
PRIMARY EXAMINER:
                      Duffy, Patricia A.
LEGAL REPRESENTATIVE:
                      Sughrue, Mion, Zinn Macpeak & Seas. PLLC
NUMBER OF CLAIMS:
                     23
EXEMPLARY CLAIM:
                      1
NUMBER OF DRAWINGS:
```

17 Drawing Figure(s); 15 Drawing Page(s)

LINE COUNT: 1873

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 44 OF 110 USPATFULL

ACCESSION NUMBER: 2001:25429 USPATFULL

TITLE: Materials and methods relating to the attachment and

display of substances on cell surfaces

INVENTOR(S): Steidler, Lothar, Ghent, Belgium

Remaut, Erik, Ghent, Belgium

Wells, Jeremy Mark, Cambridge, United Kingdom

PATENT ASSIGNEE(S): Vlaams Interuniversitair Instituut voor Biotechnologie

(VIB) vzw, Zwijnaarde, Belgium (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6190662 B1 20010220 APPLICATION INFO.: US 1998-36609 19980306 (9) APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation of Ser. No. WO 1996-GB2195, filed on 6 Sep

1996

NUMBER DATE ______ PRIORITY INFORMATION: GB 1995-18323 19950907

DOCUMENT TYPE:

Utility Navarro, Albert

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Pennie & Edmonds LLP 24

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 10 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT: 964

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 45 OF 110 USPATFULL

ACCESSION NUMBER: 2001:13969 USPATFULL TITLE: Vaccine delivery system

INVENTOR(S): Stein, Daniel C., Silver Spring, MD, United States

Stover, Charles K., Mercer Island, WA, United States

PATENT ASSIGNEE(S): University of Maryland, College Park, MD, United States

(U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 6180111 B1 20010130 US 1998-81576 19980519 APPLICATION INFO.:

19980519 (9) RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-936522, filed

on 23 Sep 1997, now abandoned Continuation of Ser. No. US 1995-443514, filed on 18 May 1995, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Graser, Jennifer

LEGAL REPRESENTATIVE: Long Aldridge & Norman

NUMBER OF CLAIMS: 19 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 9 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 46 OF 110 USPATFULL

ACCESSION NUMBER: 2000:164709 USPATFULL TITLE:

Plant artificial chromosome compositions and methods INVENTOR(S):

Preuss, Daphne, Chicago, IL, United States

Copenhaver, Gregory, Oak Park, IL, United States

PATENT ASSIGNEE(S): University of Chicago, Chicago, IL, United States (U.S.

corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 6156953 20001205 APPLICATION INFO.: US 1998-90051 19980603 (9) NUMBER DATE ______ PRIORITY INFORMATION: US 1997-48451 19970603 (60) US 1998-73741 19980205 (60) DOCUMENT TYPE: Utility PRIMARY EXAMINER: Smith, Lynette R.F. ASSISTANT EXAMINER: Zaghmout, Ousama M-Fail LEGAL REPRESENTATIVE: Fulbright & Jaworski LLP NUMBER OF CLAIMS: 27 EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 7 Drawing Figure(s); 40 Drawing Page(s) LINE COUNT: 3342 CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 47 OF 110 USPATFULL ACCESSION NUMBER: 2000:149944 USPATFULL TITLE: Peptide and protein fusions to thioredoxin, thioredoxin-like molecules, and modified thioredoxin-like molecules INVENTOR(S): McCoy, John, Reading, MA, United States DiBlasio-Smith, Elizabeth, Tyngsboro, MA, United States Grant, Kathleen, Salem, MA, United States LaVallie, Edward R., Tewksbury, MA, United States PATENT ASSIGNEE(S): Genetics Institute, Inc., Cambridge, MA, United States (U.S. corporation) NUMBER KIND DATE -----PATENT INFORMATION: US 6143524 20001107 US 1997-810436 19970304 (8) APPLICATION INFO.: Division of Ser. No. US 1993-165301, filed on 10 Dec RELATED APPLN. INFO.: 1993, now patented, Pat. No. US 5646016 which is a continuation-in-part of Ser. No. US 1992-921848, filed on 28 Jul 1992, now patented, Pat. No. US 5292646, issued on 8 Mar 1994 which is a continuation-in-part of Ser. No. US 1991-745382, filed on 14 Aug 1991, now patented, Pat. No. US 5270181, issued on 14 Dec 1993 which is a continuation-in-part of Ser. No. US 1991-652531, filed on 6 Feb 1991, now abandoned DOCUMENT TYPE: Utility PRIMARY EXAMINER: Walsh, Stephen ASSISTANT EXAMINER: Mertz, Prema LEGAL REPRESENTATIVE: Lazar, Steven R. NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1 NUMBER OF DRAWINGS: 12 Drawing Figure(s); 12 Drawing Page(s) LINE COUNT: 2534 CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 48 OF 110 USPATFULL ACCESSION NUMBER: 2000:134749 USPATFULL TITLE: Recombinant flagellin vaccines INVENTOR(S): Majarian, William R., Mt. Royal, NJ, United States Stocker, Bruce A. D., Palo Alto, CA, United States Newton, Salete M. C., Mountain View, CA, United States

(U.S. corporation)
The Board of Trustees of the Leland Stanford Junior
University, Stanford, CA, United States (U.S.

American Cyanamid Company, Madison, NJ, United States

PATENT ASSIGNEE(S):

corporation)

NUMBER KIND DATE US 6130082 20001010 US 1992-837668 19920214 (7) PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.: Continuation of Ser. No. US 1989-348430, filed on 5 May 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-190570, filed on 5 May 1988, now abandoned DOCUMENT TYPE: Utility PRIMARY EXAMINER: Mosher, Mary E. LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C. NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 15 Drawing Figure(s); 17 Drawing Page(s) LINE COUNT: 2404 CAS INDEXING IS AVAILABLE FOR THIS PATENT. L3 ANSWER 49 OF 110 USPATFULL ACCESSION NUMBER: 2000:105428 USPATFULL TITLE: Oral vaccines INVENTOR(S): Russell-Jones, Gregory John, Willoughby, United Kingdom Howe, Peter, West Pennant Hills, United Kingdom de Aizpurua, Henry James, Bexley, United Kingdom Rand, Keith Norman, Chatswood, United Kingdom PATENT ASSIGNEE(S): Biotechnology Australia PTY, LTD, New South Wales, Australia (non-U.S. corporation) NUMBER KIND DATE PATENT INFORMATION: US 6103243 20000815 US 1995-458814 19950602 (8) APPLICATION INFO.: RELATED APPLN. INFO.: Division of Ser. No. US 1994-327822, filed on 18 Oct 1994 which is a continuation of Ser. No. US 1993-158478, filed on 29 Nov 1993 which is a continuation of Ser. No. US 15810 NUMBER -----AU 1985-566 19850515 AU 1985-3104 19851025 PRIORITY INFORMATION: DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Hutzell, Paula K.
ASSISTANT EXAMINER: Gucker, Stephen
LEGAL REPRESENTATIVE: Foley & Lardner NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 1 Drawing Figure(s); 1 Drawing Page(s) LINE COUNT: 1741 CAS INDEXING IS AVAILABLE FOR THIS PATENT. ANSWER 50 OF 110 USPATFULL ACCESSION NUMBER: 2000:91741 USPATFULL TITLE: 66 kDa antigen from Borrelia INVENTOR(S): Bergstrom, Sven, Umea, Sweden Barbour, Alan George, San Antonio, TX, United States PATENT ASSIGNEE(S): Symbicom AB, Umea, Sweden (non-U.S. corporation) NUMBER KIND DATE PATENT INFORMATION: US 6090586 20000718 APPLICATION INFO.: US 1995-468878 19950606 (8)

RELATED APPLN. INFO.: Division of Ser. No. US 1994-262220, filed on 20 Jun

1994 which is a continuation-in-part of Ser. No. US 1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on 18 Oct 1989, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Housel, James C.

ASSISTANT EXAMINER: Ryan, V.

LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas

J. Frommer Lawrence & Haug LLP

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 3064

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 51 OF 110 USPATFULL

ACCESSION NUMBER: 2000:87935 USPATFULL

TITLE:

Gene encoding invasion protein of campylobacter species INVENTOR(S): Chan, Voon Loong, 93 Elm Ridge Drive, Toronto, Ontario,

Canada M6B 1A6

Joe, Angela, #1122, 341 Bloor Street West, Toronto,

Ontario, Canada M5S 1N8

Hong, Yuwen, 300 Regina Street North, Waterloo,

Ontario, Canada N2J 4H2

NUMBER KIND DATE ______

PATENT INFORMATION: US 6087105 20000711 US 1998-56783 19980408 APPLICATION INFO.: 19980408 (9)

NUMBER DATE

PRIORITY INFORMATION: US 1997-43414 19970408 (60)

Utility DOCUMENT TYPE:

PRIMARY EXAMINER: Housel, James C. ASSISTANT EXAMINER: Portner, Ginny Allen LEGAL REPRESENTATIVE: Bereskin & Parr

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

PATENT ASSIGNEE(S):

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 1803

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 52 OF 110 USPATFULL

ACCESSION NUMBER: 2000:77033 USPATFULL TITLE: Flagella-less borrelia

INVENTOR(S): Barbour, Alan G., San Antonio, TX, United States

Bundoc, Virgilio G., Newbury Park, CA, United States Sadziene, Adriadna, San Antonio, TX, United States The University of Texas System, Board of Regents,

Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE

US 6077515 20000620 US 1996-696372 19960813 (8) PATENT INFORMATION: APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 1993-124290, filed on 20 Sep 1993, now patented, Pat. No. US 5585102, issued on 17 Dec 1996 which is a continuation of Ser. No. US 1991-641143, filed on 11 Jan 1991, now patented, Pat.

No. US 5436000, issued on 25 Jul 1995

DOCUMENT TYPE: Utility PRIMARY EXAMINER: Housel, James C.

ASSISTANT EXAMINER: Ryan, V.

LEGAL REPRESENTATIVE: Arnold White & Durkee

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 7 Drawing Figure(s); 14 Drawing Page(s)

LINE COUNT:

ANSWER 53 OF 110 USPATFULL

ACCESSION NUMBER: 2000:67433 USPATFULL

TITLE: 66 kDa antigen from Borrelia INVENTOR(S): Bergstrom, Sven, Umea, Sweden

Barbour, Alan George, San Antonio, TX, United States

PATENT ASSIGNEE(S): Symbicom AB, Ulmea, Sweden (non-U.S. corporation)

> NUMBER KIND DATE -----

PATENT INFORMATION: US 6068842 20000530 US 1995-471733 19950606 (8) APPLICATION INFO.:

RELATED APPLN. INFO.: Division of Ser. No. US 1994-262220, filed on 20 Jun 1994 which is a continuation-in-part of Ser. No. US

1993-79601, filed on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on

18 Oct 1989, now abandoned

Utility DOCUMENT TYPE:

PRIMARY EXAMINER: Housel, James C.

ASSISTANT EXAMINER: Ryan, V.

LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas

J. Frommer Lawerence & Haug LLP

NUMBER OF CLAIMS: 16 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 3138

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 54 OF 110 USPATFULL

ACCESSION NUMBER: 2000:50546 USPATFULL

TITLE: 66 kDa antigen from Borrelia INVENTOR(S): Bergstrom, Sven, Umea, Sweden

Barbour, Alan George, San Antonio, TX, United States

PATENT ASSIGNEE(S): Symbicom AB, Umea, Sweden (non-U.S. corporation)

NUMBER KIND DATE -----

US 6054296 20000425 US 1994-262220 19940620 (8) PATENT INFORMATION: APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-79601, filed

on 22 Jun 1993, now patented, Pat. No. US 5523089 which is a continuation of Ser. No. US 1992-924798, filed on 6 Aug 1992, now abandoned which is a continuation of Ser. No. US 1989-422881, filed on 18 Oct 1989, now

abandoned

NUMBER DATE DK 1988-5902 19881024

PRIORITY INFORMATION:

DOCUMENT TYPE:

Utility

32

PRIMARY EXAMINER: Housel, James C.

ASSISTANT EXAMINER: Ryan, V.

LEGAL REPRESENTATIVE: Frommer, Esq., William S., Kowalski, Esq., Thomas

J.Frommer Lawrence & Haug LLP

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 5 Drawing Page(s)

LINE COUNT: 3433

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 55 OF 110 USPATFULL

ACCESSION NUMBER: 2000:21382 USPATFULL

TITLE: Methods for producing soluble, biologically-active

disulfide-bond containing eukaryotic proteins in

bacterial cells

INVENTOR(S): Georgiou, George, Austin, TX, United States

Ostermeier, Marc, State College, PA, United States Board of Regents, The University of Texas System,

PATENT ASSIGNEE(S):

Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6027888 20000222 US 1997-834516 19970404 APPLICATION INFO.: 19970404 (8)

NUMBER DATE -----

PRIORITY INFORMATION: US 1996-14950 19960405 (60)

DOCUMENT TYPE: Utility PRIMARY EXAMINER: Guzo, David
ASSISTANT EXAMINER: Sandals, William

LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 40 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 11 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT: 4029

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 56 OF 110 USPATFULL

ACCESSION NUMBER: 2000:18049 USPATFULL

TITLE: Recombinant avirulent immunogenic S typhi having rpos

positive phenotype

INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States

Nickerson, Cheryl A., Chesterfield, MO, United States

PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States

(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6024961
APPLICATION INFO.: US 1997-970789
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Mosher, Mary E. US 6024961 20000215 US 1997-970789 19971114 (8)

LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

NUMBER OF CLAIMS: 41
EXEMPLARY CLAIM: 1,39
NUMBER OF DRAWINGS: 10 Drawing Figure(s); 10 Drawing Page(s)

LINE COUNT: 2837

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 57 OF 110 USPATFULL

2000:9719 USPATFULL ACCESSION NUMBER:

Method of limiting the survival of genetically TITLE:

engineered microorganisms in their environment

INVENTOR(S): Molin, Soren, Holte, Denmark

Givskov, Michael, Copenhagen, Denmark

Kristensen, Claus Sternberg, Copenhagen N., Denmark

Bej, Asim K., Birmingham, AL, United States

Eberl, Leo, Graz, Austria

PATENT ASSIGNEE(S):

GX BioSystems A/S, Copenhagen, Denmark (non-U.S.

corporation)

NUMBER KIND DATE -----US 6017730 20000125 US 1998-70964 19980504 PATENT INFORMATION: APPLICATION INFO.: (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1995-544822, filed on 18 Oct 1995, now patented, Pat. No. US 5834233 which is a continuation-in-part of Ser. No. US 1993-133665, filed on 13 Oct 1993, now abandoned which is a continuation of Ser. No. US 1992-863261, filed on 6 Apr 1992, now

abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Brusca, John S. LEGAL REPRESENTATIVE: Cooper, Iver P.

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 43 Drawing Figure(s); 43 Drawing Page(s)

LINE COUNT: 4073

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 58 OF 110 USPATFULL

ACCESSION NUMBER: 2000:4664 USPATFULL TITLE: Hippuricase gene

INVENTOR(S): Chan, Voon Loong, 93 Elmridge Dr., Toronto Ontario M6B

1A6, Canada

Hani, Eric Kurt, 37 Greengrove Crescent, Toronto

Ontario M3A 1H8, Canada

NUMBER KIND DATE ------

US 6013501 20000111 US 1997-853552 19970509 (8) PATENT INFORMATION: -APPLICATION INFO.: 19970509 (8)

Division of Ser. No. US 1995-485216, filed on 7 Jun RELATED APPLN. INFO.:

1995, now patented, Pat. No. US 5695960 which is a continuation of Ser. No. WO 1994-CA270, filed on 13 May 1994 which is a continuation-in-part of Ser. No. US

1993-61696, filed on 14 May 1993, now abandoned

DOCUMENT TYPE: Utility PRIMARY EXAMINER: Wax, Robert A. ASSISTANT EXAMINER: Saidha, Tekchand LEGAL REPRESENTATIVE: Merchant & Gould

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT: 1677

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 59 OF 110 USPATFULL

ACCESSION NUMBER: 1999:141596 USPATFULL TITLE: Hippuricase gene

INVENTOR(S): Chan, Voon Loong, 93 Elmridge Drive, Toronto Ontario,

Canada M6B 1A6

Hani, Eric Kurt, 37 Greengrove Crescent, Toronto

Ontario, Canada M3A 1H8

NUMBER KIND DATE -----

US 5981189 19991109 US 1998-3245 19980106 PATENT INFORMATION: APPLICATION INFO.: 19980106 (9)

Division of Ser. No. US 1997-853552, filed on 9 May RELATED APPLN. INFO.: 1997 which is a division of Ser. No. US 1995-485216, filed on 7 Jun 1995, now patented, Pat. No. US 5695960 which is a continuation of Ser. No. WO 1994-CA270. filed on 13 May 1994 which is a continuation-in-part of

Ser. No. US 1993-61696, filed on 14 May 1993, now

abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Achutamurthy, Ponnathapura

ASSISTANT EXAMINER: Saidha, Tekchand LEGAL REPRESENTATIVE: Merchant & Gould

NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT: 1711

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 60 OF 110 USPATFULL

1999:136988 USPATFULL ACCESSION NUMBER:

TITLE: Immunopotentiation through covalent linkage between immunogen and immunopotentiating molecules

Barnes, Thomas Michael, Lane Cove, Australia Lehrbach, Philip Ralph, Wahroonga, Australia INVENTOR(S):

Russell-Jones, Gregory John, Middle Cove, Australia

PATENT ASSIGNEE(S): Bioenterprises PTY Limited, Roseville, Australia

(non-U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION: US 1995-461003 19991102 APPLICATION INFO.: 19950605 (8)

Division of Ser. No. US 1992-903121, filed on 23 Jun RELATED APPLN. INFO.: 1992, now abandoned which is a continuation of Ser. No.

US 1987-159968, filed on 21 Feb 1987, now abandoned

NUMBER DATE -----

AU 1987-846 PRIORITY INFORMATION: 19870313

DOCUMENT TYPE: Utility

Caputa, Anthony C. PRIMARY EXAMINER: ASSISTANT EXAMINER: Navarro, Mark LEGAL REPRESENTATIVE: Foley & Lardner

NUMBER OF CLAIMS: 18 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 14 Drawing Figure(s); 7 Drawing Page(s)

LINE COUNT: 690

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 61 OF 110 USPATFULL

1999:120887 USPATFULL ACCESSION NUMBER:

TITLE: Stable pura vectors and uses therefor

INVENTOR(S): Brey, Robert N., Rochester, NY, United States

Fulginiti, James P., Canandaigua, NY, United States

Anilionis, Algis, Pittsford, NY, United States

PATENT ASSIGNEE(S): Praxis Biologics, Inc., West Henrietta, NJ, United

States (U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 1995-448907 19991005 APPLICATION INFO.: (8) 19950524

Division of Ser. No. US 1995-380297, filed on 30 Jan RELATED APPLN. INFO.:

1995 which is a continuation of Ser. No. US

1994-204903, filed on 2 Mar 1994, now abandoned which is a continuation of Ser. No. US 1991-695706, filed on

3 May 1991, now abandoned

DOCUMENT TYPE: Utility

Ketter, James PRIMARY EXAMINER: ASSISTANT EXAMINER: Brusca, John S.

LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 9 Drawing Page(s)

LINE COUNT: 1389

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 62 OF 110 USPATFULL

ACCESSION NUMBER: 1999:85216 USPATFULL

TITLE:

Compositions comprising isolated Helicobacter pylori CagI polynucleotides and method of preparation thereof

INVENTOR(S): Covacci, Antonello, Siena, Italy

PATENT ASSIGNEE(S): Chiron S.p.A., Italy (non-U.S. corporation)

NUMBER KIND DATE PATENT INFORMATION: US 5928865 19990727 US 1995-477451 19950607

APPLICATION INFO.: 19950607 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1995-425194, filed

on 20 Apr 1995, now abandoned And Ser. No. US

1995-471491, filed on 6 Jun 1995 which is a division of Ser. No. US 256848

NUMBER DATE _____

PRIORITY INFORMATION: IT 1992-FI52 19920302

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Housel, James C.
ASSISTANT EXAMINER: Portner, Ginny Allen
LEGAL REPRESENTATIVE: Woodcock, Washburn, Kurtz, Mackiewicz & Norris, Harbin,

Alisa A., Blackburn, Robert P.

NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Figure(s); 120 Drawing Page(s)
6155

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 63 OF 110 USPATFULL

ACCESSION NUMBER: 1999:78568 USPATFULL

TITLE:

Adhesin genes and proteins involved in trichomonas

vaginalis cytoadherence

Alderete, John F., San Antonio, TX, United States Board of Regents, The University of Texas System, INVENTOR(S): PATENT ASSIGNEE(S):

Austin, TX, United States (U.S. corporation)

NUMBER KIND -----

PATENT INFORMATION: US 5922563 19990713
APPLICATION INFO.: US 1995-504459 19950720 (8)
DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Longton, Enrique D.
LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 41 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 14 Drawing Figure(s); 11 Drawing Page(s)

LINE COUNT: 3561

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 64 OF 110 USPATFULL

ACCESSION NUMBER: 1999:75520 USPATFULL

TITLE: Stable purA vectors and uses therefor

Brey, Robert N., Rochester, NY, United States INVENTOR(S):

Fulginiti, James P., Canandaigua, NY, United States

Anilionis, Algis, Pittsford, NY, United States

American Cyanamid Company, Madison, NJ, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE _____

US 5919663 19990706 US 1995-380297 19950130 (8) PATENT INFORMATION:

APPLICATION INFO.: RELATED APPLN. INFO.:

Continuation of Ser. No. US 1994-204903, filed on 2 Mar 1994, now abandoned which is a continuation of Ser. No.

US 1991-695706, filed on 3 May 1991, now abandoned

DOCUMENT TYPE: Utility

Ketter, James Brusca, John S. PRIMARY EXAMINER: ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Hamilton, Brook, Smith & Reynolds, P.C.

NUMBER OF CLAIMS: 41 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 13 Drawing Figure(s); 9 Drawing Page(s)

1390 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 65 OF 110 USPATFULL

1999:40230 USPATFULL ACCESSION NUMBER:

Campylobacteri jejuni flagellin-escherichia TITLE:

coli LT-B fusion protein

INVENTOR(S): Meinersmann, Richard J., Lithonia, GA, United States

Khoury, Christian A., Philadelphia, PA, United States

The United States of America as represented by the PATENT ASSIGNEE(S):

Secretary of Agriculture, Washington, DC, United States

(U.S. government)

NUMBER KIND DATE _____

PATENT INFORMATION: US 5888810 19990330 US 1997-784218 19970116 (8) APPLICATION INFO.:

Division of Ser. No. US 1993-150305, filed on 12 Nov RELATED APPLN. INFO.:

1993, now abandoned

DOCUMENT TYPE: Utility

Caputa, Anthony C. PRIMARY EXAMINER:

Silverstein, M. Howard, Fado, John, Graeter, Janelle S. LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)

LINE COUNT: 805

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 66 OF 110 USPATFULL

1999:27448 USPATFULL ACCESSION NUMBER:

Methods and compositions for the preparation of TITLE:

recombinant Trichomonas vaginalis proteins and peptides

Alderete, John F., San Antonio, TX, United States INVENTOR(S): Board of Regents, The University of Texas System, PATENT ASSIGNEE(S):

Austin, TX, United States (U.S. corporation)

KIND DATE NUMBER ______

US 5876985 US 1994-259966 PATENT INFORMATION: 19940614 19990302 APPLICATION INFO.: (8)

Continuation of Ser. No. US 1991-692382, filed on 25 RELATED APPLN. INFO.:

Apr 1991, now abandoned

DOCUMENT TYPE: Utility

Patterson, Jr., Charles L. PRIMARY EXAMINER:

Moore, William W. ASSISTANT EXAMINER: LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 21 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 18 Drawing Figure(s); 12 Drawing Page(s)

LINE COUNT: 2363

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 67 OF 110 USPATFULL

ACCESSION NUMBER: 1999:24309 USPATFULL

Immunopotentiating complexes comprising TraT proteins TITLE: INVENTOR(S):

Barnes, Thomas Michael, Lane Cove, Australia Lehrbach, Philip Ralph, Wahroonga, Australia Russell-Jones, Gregory John, Middle Cove, Australia

Bioenterprises Pty Limited, East Roseville, Australia PATENT ASSIGNEE(S):

(non-U.S. corporation)

KIND DATE NUMBER ______

PATENT INFORMATION: US 5874083 19990223 US 1995-461324 19950605 (8) APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation of Ser. No. US 1992-903121, filed on 23 Jun 1992, now abandoned which is a continuation of Ser.

No. US 1987-159968, filed on 21 Dec 1987, now abandoned

DATE NUMBER

AU 1986-5559 19860421 AU 1987-846 19870313 PRIORITY INFORMATION:

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Sidberry, Hazel F. LEGAL REPRESENTATIVE: Foley & Lardner

NUMBER OF CLAIMS: 16

EXEMPLARY CLAIM: 1

10 Drawing Figure(s); 7 Drawing Page(s) NUMBER OF DRAWINGS:

822 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 68 OF 110 USPATFULL

1999:1223 USPATFULL ACCESSION NUMBER:

Avirulent microbes and uses therefor TITLE:

Curtiss, III, Roy, St. Louis, MO, United States INVENTOR(S): Kelly, Sandra M., St. Louis, MO, United States

Washington University, St. Louis, MO, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE

US 5855880 19990105 US 1996-596732 19960205 PATENT INFORMATION: US 1996-596732 19960205 (8) APPLICATION INFO.:

Division of Ser. No. US 1994-209542, filed on 10 Mar RELATED APPLN. INFO.: 1994 which is a continuation-in-part of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned which

is a continuation-in-part of Ser. No. US 1988-200934,

filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed

on 4 Jun 1987, now abandoned , said Ser. No. US

-200934 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Scheiner, Laurie

LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

6 Drawing Figure(s); 6 Drawing Page(s)
3409 NUMBER OF DRAWINGS:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 69 OF 110 USPATFULL

1999:1222 USPATFULL ACCESSION NUMBER:

Avirulent microbes and uses therefor TITLE:

Curtiss III, Roy, St. Louis, MO, United States INVENTOR(S):

Washington University, St. Louis, MO, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE ______

US 5855879 19990105 US 1994-209542 19940310 (8) PATENT INFORMATION: APPLICATION INFO.:

Division of Ser. No. US 1991-785748, filed on 7 Nov RELATED APPLN. INFO.: 1991, now patented, Pat. No. US 5294441 which is a

continuation-in-part of Ser. No. US 1990-612001, filed

on 9 Nov 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-200934, filed

on 1 Jun 1988, now abandoned which is a

continuation-in-part of Ser. No. US 1987-58360, filed

on 4 Jun 1987, now abandoned , said Ser. No. US

-612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

Utility DOCUMENT TYPE:

Scheiner, Laurie PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Howell & Haferkamp, L.C.

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

6 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

3399 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 70 OF 110 USPATFULL

1998:162259 USPATFULL ACCESSION NUMBER:

Decorin binding protein compositions and methods of use TITLE: Guo, Betty, Houston, TX, United States

INVENTOR(S): Hook, Magnus, Houston, TX, United States

The Texas A & M University System, College Station, TX, PATENT ASSIGNEE(S):

United States (U.S. corporation)

KIND DATE NUMBER ______ PATENT INFORMATION: US 5853987 US 1996-589711 19981229 19960122 (8)

APPLICATION INFO .: Continuation-in-part of Ser. No. US 1995-427023, filed RELATED APPLN. INFO.:

on 24 Apr 1995, now abandoned

Utility DOCUMENT TYPE:

Horlick, Kenneth R. PRIMARY EXAMINER:

Tung, Joyce ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 68 EXEMPLARY CLAIM:

25 Drawing Figure(s); 14 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 71 OF 110 USPATFULL

ACCESSION NUMBER: 1998:156927 USPATFULL

Binding domains from Plasmodium vivax and Plasmodium TITLE:

falciparum erythrocyte binding proteins

INVENTOR(S):

Sim, Kim Lee, Gaithersburg, MD, United States Chitnis, Chetan, Washington, DC, United States Miller, Louis H., Bethesda, MD, United States Peterson, David S., Rockville, MD, United States

Su, Xin-Zhuan, Rockville, MD, United States Wellems, Thomas E., Rockville, MD, United States

The United States of America as represented by the PATENT ASSIGNEE(S):

Department of Health and Human Services, Washington,

DC, United States (U.S. government)

KIND NUMBER _____

PATENT INFORMATION: US 5849306 19981215 US 1995-568459 19951207 (8)

APPLICATION INFO.:

Continuation of Ser. No. US 1993-119677, filed on 10 RELATED APPLN. INFO.:

Sep 1993, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Cunningham, Thomas M.

LEGAL REPRESENTATIVE: Knobbe, Martens, Olson & Bear, LLP

NUMBER OF CLAIMS: 12 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)

2490 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 72 OF 110 USPATFULL

ACCESSION NUMBER: 1998:150449 USPATFULL Salmonella vaccines TITLE:

Miller, Samuel I., Seattle, WA, United States Mekalanos, John J., Cambridge, MA, United States INVENTOR(S):

The General Hospital Corporation, Boston, MS, United PATENT ASSIGNEE(S):

States (U.S. corporation)

President and Fellows of Harvard College, Cambridge,

MS, United States (U.S. corporation)

KIND DATE NUMBER

______ PATENT INFORMATION: US 5843426 19981201 US 1995-565861 19951201 (8) APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1994-271354, filed RELATED APPLN. INFO.:

on 6 Jul 1994, now patented, Pat. No. US 5695983 which is a continuation-in-part of Ser. No. US 1993-90526, filed on 9 Jul 1993, now patented, Pat. No. US 5599537

which is a continuation-in-part of Ser. No. US 1990-629602, filed on 18 Dec 1990, now abandoned

DOCUMENT TYPE: Utility

LeGuvader, John L. ASSISTANT EXAMINER: PRIMARY EXAMINER: Brusca, John S. LEGAL REPRESENTATIVE: Fish & Richardson P.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 25 Drawing Figure(s); 20 Drawing Page(s)

LINE COUNT: 4505

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 73 OF 110 USPATFULL

ACCESSION NUMBER: 1998:147236 USPATFULL

Antibodies directed to pagC peptides for the detection TITLE:

of salmonellae

Schubert, Peter, Darmstadt, Germany, Federal Republic INVENTOR(S):

Neumann, Siegfried, Seeheim-Jugenheim, Germany, Federal

Republic of

Burger, Christa, Darmstadt, Germany, Federal Republic

Linxweiler, Winfried, GroB-Umstadt, Germany, Federal

Republic of

Bubert, Andreas, Gerbrunn, Germany, Federal Republic of

Goebel, Werner, Veitschochheim, Germany, Federal

Republic of

Mollenkopf, Hans-Joachim, Randersacker, Germany,

Federal Republic of

Merck Patent Gesellschaft mit Beschrankter Haftung, PATENT ASSIGNEE(S):

Germany, Federal Republic of (non-U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: US 5840513 19981124 US 1995-372197 19950113 (8) APPLICATION INFO.:

> NUMBER DATE _____

DE 1994-4400990 19940114 PRIORITY INFORMATION:

DOCUMENT TYPE: Utility

Caputa, Anthony C. PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Millen, White, Zelano & Branigan, P.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 7 Drawing Figure(s); 2 Drawing Page(s)

673 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 74 OF 110 USPATFULL

1998:144221 USPATFULL ACCESSION NUMBER:

Campylobacter jejuni flagellin/Escherichia TITLE:

coli LT-B fusion protein

Meinersmann, Richard J., Lithonia, GA, United States INVENTOR(S):

Khoury, Christian A., Philadelphia, PA, United States The United States of America as represented by the

PATENT ASSIGNEE(S):

Secretary of Agriculture, Washington, DC, United States

(U.S. government)

NUMBER KIND DATE ______

PATENT INFORMATION: US 5837825 19981117 US 1997-829026 19970331 (8) APPLICATION INFO.:

Continuation of Ser. No. US 1993-150305, filed on 12 RELATED APPLN. INFO.:

Nov 1993, now abandoned

Utility DOCUMENT TYPE:

PRIMARY EXAMINER: Caputa, Anthony C.

LEGAL REPRESENTATIVE: Silverstein, M. Howard, Fado, John, Graeter, Janelle S.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

INVENTOR(S):

3 Drawing Figure(s); 3 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 803

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 75 OF 110 USPATFULL

1998:143904 USPATFULL ACCESSION NUMBER:

Directed evolution of novel binding proteins TITLE:

Ladner, Robert Charles, Ijamsville, MD, United States Gutterman, Sonia Kosow, Belmont, MA, United States Roberts, Bruce Lindsay, Milford, MA, United States Markland, William, Milford, MA, United States Ley, Arthur Charles, Newton, MA, United States

Kent, Rachel Baribault, Boxborough, MA, United States

Dyax, Corp., Cambridge, MA, United States (U.S. PATENT ASSIGNEE(S):

corporation)

KIND DATE NUMBER _____ US 5837500 19981117 US 1995-415922 19950403 PATENT INFORMATION: APPLICATION INFO .: (8)

Continuation of Ser. No. US 1993-9319, filed on 26 Jan RELATED APPLN. INFO.:

1993, now patented, Pat. No. US 5403484 which is a division of Ser. No. US 1991-664989, filed on 1 Mar 1991, now patented, Pat. No. US 5223409 which is a continuation-in-part of Ser. No. US 1990-487063, filed

on 2 Mar 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-240160, filed

on 2 Sep 1988, now abandoned

DOCUMENT TYPE: Utility Ulm, John PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Cooper, Iver P.

43 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

16 Drawing Figure(s); 16 Drawing Page(s) NUMBER OF DRAWINGS:

15973 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 76 OF 110 USPATFULL

1998:138676 USPATFULL ACCESSION NUMBER:

Method of limiting the survival of genetically TITLE:

engineered microorganisms in their enivronment

Molin, Soren, Holte, Denmark INVENTOR(S):

Givskov, Michael, Copenhagen, Denmark

Kristensen, Claus Sternberg, Copenhagen N., Denmark

Bej, Asim K., Birmingham, AL, United States

Eberl, Leo, Graz, Austria

GX BioSystems A/S, Copenhagen, Denmark (non-U.S. PATENT ASSIGNEE(S):

corporation)

KIND DATE NUMBER _____ US 5834233 PATENT INFORMATION:

US 5834233 19981110 US 1995-544822 19951018 (8) APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1993-135665, filed RELATED APPLN. INFO.: on 13 Oct 1993, now abandoned which is a continuation

of Ser. No. US 1992-863261, filed on 6 Nov 1992, now

abandoned Utility

DOCUMENT TYPE: Ketter, James Brusca, John S. PRIMARY EXAMINER: ASSISTANT EXAMINER: Cooper, Iver P. LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 125 EXEMPLARY CLAIM:

43 Drawing Figure(s); 43 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 4488

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 77 OF 110 USPATFULL

1998:134627 USPATFULL ACCESSION NUMBER:

Yeast-based delivery vehicles TITLE:

Duke, Richard C., Denver, CO, United States INVENTOR(S): Franzusoff, Alex, Boulder, CO, United States

Bellgrau, Donald, Denver, CO, United States

University Technology Corporation, Boulder, CO, United PATENT ASSIGNEE(S):

States (U.S. corporation)

KIND DATE NUMBER

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US 5830463 19981103 US 1994-340185 19941115 (8) 19981103 PATENT INFORMATION: APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1993-88322, filed RELATED APPLN. INFO.:

on 7 Jul 1993, now patented, Pat. No. US 5413914

DOCUMENT TYPE: Utility

Chambers, Jasemine C. PRIMARY EXAMINER:

ASSISTANT EXAMINER: Hauda, Karen M. Sheridan Ross P.C. LEGAL REPRESENTATIVE:

NUMBER OF CLAIMS: 12 EXEMPLARY CLAIM: 1,12

3 Drawing Figure(s); 3 Drawing Page(s) NUMBER OF DRAWINGS:

1929 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 78 OF 110 USPATFULL

1998:115424 USPATFULL ACCESSION NUMBER:

Vaccines containing bacteria attenuated by TITLE: mutations in two genes of the aromatic amino

acid biosynthetic pathway

INVENTOR(S):

Dougan, Gordon, Beckenham, United Kingdom Chatfield, Steven Neville, Beckenham, United Kingdom Hormaeche, Carlos Estenio, Cambridge, United Kingdom

Glaxo Wellcome, Inc., Research Triangle Park, NC, PATENT ASSIGNEE(S):

United States (U.S. corporation)

KIND DATE NUMBER US 5811105 19980922 PATENT INFORMATION: US 4492978 19950524

APPLICATION INFO.: 20180623 DISCLAIMER DATE:

Division of Ser. No. 135436, filed on 13 Oct 1993, RELATED APPLN. INFO.:

now abandoned which is a continuation of Ser. No. 979460, filed on 20 Nov 1992, now abandoned which is a continuation of Ser. No. 857092, filed on 20 Mar 1992, now abandoned which is a continuation of Ser. No. 642138, filed on 15 Jan 1991, now abandoned which is a continuation of Ser. No. 399539, filed on 22 Aug

1989, now abandoned

DATE NUMBER ______

PRIORITY INFORMATION:

GB 8730037 Utility

19871223

DOCUMENT TYPE: PRIMARY EXAMINER:

Minnifield, Nita

LEGAL REPRESENTATIVE: Nixon & Vanderhye, P.C.

23 NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

1 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

628

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 79 OF 110 USPATFULL

1998:111773 USPATFULL ACCESSION NUMBER:

OspE, OspF, and S1 polypeptides in Borrelia burgdorferi TITLE:

Flavell, Richard A., Killingworth, CT, United States INVENTOR(S):

Fikrig, Erol, Guilford, CT, United States Lam, Tuan T., San Jose, CA, United States Kantor, Fred S., Orange, CT, United States

Barthold, Stephen W., Madison, CT, United States Yale University, New Haven, CT, United States (U.S.

PATENT ASSIGNEE(S): corporation)

> NUMBER KIND DATE

PATENT INFORMATION: US 5807685 US 1997-909119 19980915 (8) 19970811 APPLICATION INFO.:

Division of Ser. No. US 1993-118469, filed on 8 Sep RELATED APPLN. INFO.:

1993, now patented, Pat. No. US 5656451 And a continuation-in-part of Ser. No. US 1993-99757, filed

on 30 Jul 1993, now abandoned

DOCUMENT TYPE: Utility

Carlson, Karen PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Fish & Neave, Haley, Jr., James F., Gunnison, Jane T.

11 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1

17 Drawing Figure(s); 16 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 2343

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 80 OF 110 USPATFULL

1998:72257 USPATFULL ACCESSION NUMBER:

Vaccines containing salmonella TITLE:

bacteria attenuated by mutations in two genes of the aromatic amino acid biosynthetic pathway

Dougan, Gordon, Beckenham, United Kingdom INVENTOR(S):

Chatfield, Steven Neville, Beckenham, United Kingdom Hormaeche, Carlos Estenio, Cambridge, United Kingdom

Glaxo Wellcome, Inc., Research Triangle Park, NC, PATENT ASSIGNEE(S):

United States (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: US 5770214 19980623 US 1995-484314 19950607 (8) US 1995-484314 APPLICATION INFO .:

Continuation of Ser. No. US 1993-135436, filed on 13 RELATED APPLN. INFO.: Oct 1993, now abandoned which is a continuation of Ser.

No. US 1992-979460, filed on 20 Nov 1992, now abandoned which is a continuation of Ser. No. US 1992-857092,

filed on 20 Mar 1992, now abandoned which is a continuation of Ser. No. US 1991-642138, filed on 15 Jan 1991, now abandoned which is a continuation of Ser. No. US 1989-399539, filed on 22 Aug 1989, now abandoned

DATE NUMBER _____ GB 1987-30037 19871223

PRIORITY INFORMATION: Utility DOCUMENT TYPE:

Minnifield, Nita PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Nixon & Vanderhye, P.C.,

12 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

1 Drawing Figure(s); 1 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 599

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 81 OF 110 USPATFULL

97:123350 USPATFULL ACCESSION NUMBER:

Nucleic acid encoding helicobacter pylori enolase TITLE: Thompson, Stuart A., Joelton, TN, United States INVENTOR(S): Blaser, Martin J., Nashville, TN, United States Vanderbilt University, Nashville, TN, United States PATENT ASSIGNEE(S):

(U.S. corporation)

KIND DATE NUMBER -----US 5703219 19971230 PATENT INFORMATION: 19950522 (8) US 1995-446920 APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1994-215928, filed RELATED APPLN. INFO.:

on 21 Mar 1994, now patented, Pat. No. US 5434253,

issued on 18 Jul 1995

DOCUMENT TYPE:

Utility Wax, Robert A. PRIMARY EXAMINER: ASSISTANT EXAMINER: Lau, Kawai

LEGAL REPRESENTATIVE: Needle & Rosenberg, PC

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: 6 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

1485 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 82 OF 110 USPATFULL

97:115147 USPATFULL ACCESSION NUMBER: Salmonella vaccines TITLE:

Miller, Samuel I., Brookline, MA, United States INVENTOR(S): Mekalanos, John J., Cambridge, MA, United States

The General Hospital Corporation, Boston, MA, United PATENT ASSIGNEE(S):

States (U.S. corporation)

President and Fellows of Harvard College, Cambridge,

MA, United States (U.S. corporation)

NUMBER KIND DATE

US 5695983 19971209 US 1994-271354 19940706 (8) PATENT INFORMATION: APPLICATION INFO .:

Continuation-in-part of Ser. No. US 1993-90526, filed RELATED APPLN. INFO.: on 9 Jul 1993, now patented, Pat. No. US 5599537 which

is a continuation-in-part of Ser. No. US 1990-629602,

filed on 18 Dec 1990, now abandoned

Utility DOCUMENT TYPE:

ASSISTANT EXAMINER: Ketter, James
LEGAL REPORCEMENT.

LEGAL REPORCEMENT. Brusca, John S. LEGAL REPRESENTATIVE: Fish & Richardson P.C.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 25 Drawing Figure(s); 20 Drawing Page(s)

3780 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 83 OF 110 USPATFULL

ACCESSION NUMBER: 97:115125 USPATFULL Hippuricase gene

Chan, Voon Loong, 93 Elmridge Dr., Toronto, Ontario, INVENTOR(S):

Canada M6B 1A6

Hani, Eric Kurt, 37 Greengrove Crescent, Toronto,

Ontario, Canada M3A 1H8

NUMBER KIND DATE _____ 19971209

PATENT INFORMATION: US 5695960 US 1995-485216 19950607 (8) APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1993-61696, filed RELATED APPLN. INFO.:

on 14 May 1993, now abandoned

DOCUMENT TYPE: Utility

Hendricks, Keith D. PRIMARY EXAMINER: Saidha, Tekchand ASSISTANT EXAMINER: LEGAL REPRESENTATIVE: Bereskin & Parr

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

6 Drawing Figure(s); 6 Drawing Page(s) NUMBER OF DRAWINGS:

1609 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 84 OF 110 USPATFULL

97:78182 USPATFULL ACCESSION NUMBER:

TITLE:

Invasive microorganisms

INVENTOR(S):

Falkow, Stanley, Portola Valley, CA, United States

Isberg, Ralph, Brookline, MA, United States Miller, Virginia, Van Nuys, CA, United States

St. Geme, III, Joseph W., Redwood City, CA, United

States

Lee, Catherine A., Newton, MA, United States The Board of Trustees of the Leland Stanford Jr. PATENT ASSIGNEE(S): University, Palo Alto, CA, United States (U.S.

corporation)

KIND DATE NUMBER

PATENT INFORMATION: APPLICATION INFO .:

US 5662908 19970902 19940321 US 1994-216086 (8)

Continuation of Ser. No. US 1992-844470, filed on 2 Mar RELATED APPLN. INFO.: 1992, now abandoned which is a continuation-in-part of Ser. No. US 1991-644826, filed on 23 Jan 1991, now

patented, Pat. No. US 5239066 which is a

continuation-in-part of Ser. No. US 1990-559904, filed

on 30 Jul 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1989-340375, filed on 19 Apr 1989, now patented, Pat. No. US 5310654 which is a continuation-in-part of Ser. No. US 1985-761222,

filed on 31 Jul 1985, now abandoned

DOCUMENT TYPE:

Utility

PRIMARY EXAMINER:

Mosher, Mary E.

LEGAL REPRESENTATIVE:

Flehr, Hohbach, Test, Albritton & Herbert, Trecartin,

Richard F., Silva, Robin M.

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

2 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT:

2673

1

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 85 OF 110 USPATFULL

ACCESSION NUMBER:

97:70928 USPATFULL

TITLE:

Recombinant avirulent salmonella

antifertility vaccines

INVENTOR(S):

Curtiss, III, Roy, St. Louis, MO, United States

Tung, Kenneth S. K., Charlottsville, VA, United States Washington University, St. Louis, MO, United States

PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE 19970812

PATENT INFORMATION: APPLICATION INFO.:

US 5656488 US 1994-222182 19940401 (8)

Continuation of Ser. No. US 1991-791347, filed on 18 RELATED APPLN. INFO.: Nov 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-615720, filed on 21 Nov 1990, now

abandoned

DOCUMENT TYPE:

Utility

PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Cunningham, Thomas M. Howell & Haferkamp, L.C.

NUMBER OF CLAIMS:

50

EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 23 Drawing Figure(s); 20 Drawing Page(s)

LINE COUNT:

3112

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 86 OF 110 USPATFULL

97:70893 USPATFULL ACCESSION NUMBER:

TITLE:

INVENTOR(S):

OspE, OspF, and S1 polypeptides in borrelia burgdorferi Flavell, Richard A., Killingworth, CT, United States

Fikrig, Erol, Guilford, CT, United States Lam, Tuan T., San Jose, CA, United States Kantor, Fred S., Orange, CT, United States

Barthold, Stephen W., Madison, CT, United States Yale University, New Haven, CT, United States (U.S.

PATENT ASSIGNEE(S): corporation)

> KIND DATE NUMBER

US 5656451 US 1993-118469 19970812 PATENT INFORMATION: 19930908 (8) APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1993-99757, filed

on 30 Jul 1993, now abandoned

Utility DOCUMENT TYPE:

Wax, Robert A. PRIMARY EXAMINER: Carlson, K. Cochrane ASSISTANT EXAMINER:

Fish & Neave, Haley, Jr. Esq., James F., Gunnison, LEGAL REPRESENTATIVE:

Esq., Jane T.

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

17 Drawing Figure(s); 16 Drawing Page(s) NUMBER OF DRAWINGS:

2447 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 87 OF 110 USPATFULL

ACCESSION NUMBER: 97:59078 USPATFULL

TITLE:

Peptide and protein fusions to thioredoxin, thioredoxin-like molecules, and modified

thioredoxin-like molecules

McCoy, John, Reading, MA, United States INVENTOR(S):

DiBlasio-Smith, Elizabeth, Tyngsboro, MA, United States

Grant, Kathleen, Salem, MA, United States

LaVallie, Edward R., Tewksbury, MA, United States

Genetics Institute, Inc., Cambridge, MA, United States PATENT ASSIGNEE(S):

(U.S. corporation)

KIND DATE NUMBER ______

PATENT INFORMATION: APPLICATION INFO.:

US 5646016 19970708 US 1993-165301 19931210 (8)

Continuation-in-part of Ser. No. US 1992-921848, filed RELATED APPLN. INFO.: on 28 Jul 1992, now patented, Pat. No. US 5292646,

issued on 8 Mar 1994 which is a continuation-in-part of Ser. No. US 1991-745382, filed on 14 Aug 1991, now patented, Pat. No. US 5270181, issued on 14 Dec 1993

which is a continuation-in-part of Ser. No. US 1991-652531, filed on 6 Feb 1991, now abandoned

DOCUMENT TYPE: Utility

Hendricks, Keith D. PRIMARY EXAMINER: Bugaisky, G. E. ASSISTANT EXAMINER: Meinert, M. C. LEGAL REPRESENTATIVE:

41 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

13 Drawing Figure(s); 13 Drawing Page(s) NUMBER OF DRAWINGS:

2397 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 88 OF 110 USPATFULL

97:47098 USPATFULL ACCESSION NUMBER:

Method of detecting ligand interactions TITLE:

McCoy, John M., Reading, MA, United States INVENTOR(S):

Lu, Zhijian, Arlington, MA, United States

Genetics Institute, Inc., Cambridge, MA, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE ______

US 5635182 19970603 US 1994-260582 19940616 (8) PATENT INFORMATION:

APPLICATION INFO.: 20101214 DISCLAIMER DATE: Utility DOCUMENT TYPE:

PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Bugalsky, Gabriele E.

LEGAL REPRESENTATIVE: Meinert, M. C.

28 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 7 Dra 1935 7 Drawing Figure(s); 7 Drawing Page(s)

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 89 OF 110 USPATFULL

97:1542 USPATFULL ACCESSION NUMBER:

Expression of specific immunogens using viral antigens TITLE:

Hung, Paul P., Bryn Mawr, PA, United States INVENTOR(S):

Lee, Shaw-Guang L., Villanova, PA, United States Kalyan, Narender K., Wayne, PA, United States

American Home Products Corporation, Madison, NJ, United PATENT ASSIGNEE(S):

States (U.S. corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: US 5591823 19970107 APPLICATION INFO.: US 1993-169813 19931217 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1991-805105, filed

on 11 Dec 1991, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Smith, Lynette F. LEGAL REPRESENTATIVE: Jackson, Richard K.

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s) LINE COUNT: 1122

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 90 OF 110 USPATFULL

96:116113 USPATFULL ACCESSION NUMBER: Flagella-less borrelia TITLE:

Barbour, Alan G., San Antonio, TX, United States INVENTOR(S):

Bundoc, Virgilio G., Newbury Park, CA, United States Sadziene, Adriadna, San Antonio, TX, United States Board of Regents, The University of Texas System,

PATENT ASSIGNEE(S): Austin, TX, United States (U.S. corporation)

NUMBER KIND DATE

-----US 5585102 19961217 US 1993-124290 19930920 (8) PATENT INFORMATION: APPLICATION INFO.:

Continuation of Ser. No. US 1991-641143, filed on 11 RELATED APPLN. INFO.:

Jan 1991

Utility DOCUMENT TYPE:

PRIMARY EXAMINER: Sidberry, Hazel F. LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 6 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 17 Drawing Figure(s); 11 Drawing Page(s)

LINE COUNT: 1434

L3 ANSWER 91 OF 110 USPATFULL

ACCESSION NUMBER: 96:101466 USPATFULL

TITLE: Directed evolution of novel binding proteins INVENTOR(S): Ladner, Robert C., Ijamsville, MD, United States

Guterman, Sonia K., Belmont, MA, United States Roberts, Bruce L., Milford, MA, United States Markland, William, Milford, MA, United States Ley, Arthur C., Newton, MA, United States Kent, Rachel B., Boxborough, MA, United States

PATENT ASSIGNEE(S): Protein Engineering Corporation, Cambridge, MA, United

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5571698 19961105 APPLICATION INFO.: US 1993-57667 19930618 (8)

DISCLAIMER DATE: 20100629

RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-664989, filed on 1 Mar

1991, now patented, Pat. No. US 5223409 which is a continuation-in-part of Ser. No. US 1990-487063, filed

on 2 Mar 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-240160, filed

on 2 Sep 1988, now abandoned

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Ulm, John
LEGAL REPRESENTATIVE: Cooper, Iver P.

NUMBER OF CLAIMS: 83
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)

LINE COUNT: 15323

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 92 OF 110 USPATFULL

ACCESSION NUMBER: 96:75121 USPATFULL

TITLE: Recombinant hybrid porin epitopes

INVENTOR(S): Goldstein, Neil I., West Orange, NJ, United States Tackney, Charles T., Brooklyn, NY, United States

PATENT ASSIGNEE(S): Imclone Systems Incorporated, New York, NY, United

States (U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5547670 19960820 APPLICATION INFO.: US 1993-124369 19930920 (8)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1991-669528, filed on 14

Mar 1991, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Nucker, Christine M. ASSISTANT EXAMINER: Scheiner, Laurie

LEGAL REPRESENTATIVE: Feit, Irving N., Gallagher, Thomas C.

NUMBER OF CLAIMS: 4 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 8 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT: 985

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 93 OF 110 USPATFULL

ACCESSION NUMBER: 96:45945 USPATFULL

TITLE: Transformed cell lines producing human monoclonal

antibodies specific for Pseudomonas aeruginosa

serotypes

INVENTOR(S):

Fukuda, Tamotsu, Mobara, Japan Ono, Yasushi, Shiki, Japan

Shigeta, Shiro, Fukushima, Japan Kuriowa, Yasuyuki, Mobara, Japan Ooka, Hisayoshi, Fukushima, Japan

PATENT ASSIGNEE(S):

Mitsui Toatsu Chemicals, Inc., Tokyo, Japan (non-U.S.

corporation)

KIND DATE NUMBER US 5521085 US 1993-41244 19960528 PATENT INFORMATION: 19930401 (8) APPLICATION INFO.:

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 1989-431097, filed on 3 Nov 1989, now abandoned Ser. No. Ser. No. US 1990-602235, filed on 8 Nov 1990, now abandoned And Ser. No. US 1992-879118, filed on 5 May 1992, now abandoned which is a continuation of Ser. No. US 1988-251217, filed on 8 Aug 1988, now abandoned

NUMBER DATE ______ JP 1986-296594 19861215 PRIORITY INFORMATION: WO 1987-JP976 19871214 JP 1988-281460 19881109 JP 1988-281461 19881109 JP 1989-66326 19890320 JP 1989-66327 19890320 JP 1989-66328 JP 1989-66329 19890320

 JP 1989-66329
 19890320

 JP 1989-116048
 19890511

 WO 1990-JP367
 19900319

 H+1344
 19900319

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Lacey, David L.
ASSISTANT EXAMINER: Loring, Susan A. LEGAL REPRESENTATIVE: Nixon & Vanderhye

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

7 Drawing Figure(s); 4 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 3963

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 94 OF 110 USPATFULL

ACCESSION NUMBER: 95:103251 USPATFULL

TITLE:

Avirulent microbes and uses therefor

Curtiss, III, Roy, St. Louis, MO, United States INVENTOR(S): Washington University, St. Louis, MO, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 5468485 19951121 19930218 (8) US 1993-20259 APPLICATION INFO.: 20110315

DISCLAIMER DATE:

Continuation of Ser. No. US 1989-332285, filed on 31 RELATED APPLN. INFO.: Mar 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-200934, filed on 1 Jun 1988, now

abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned

Utility DOCUMENT TYPE:

Sidberry, Hazel F. PRIMARY EXAMINER:

LEGAL REPRESENTATIVE: Rogers, Howell & Haferkamp

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

8 Drawing Figure(s); 8 Drawing Page(s) NUMBER OF DRAWINGS:

2597 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 95 OF 110 USPATFULL

ACCESSION NUMBER:

95:66995 USPATFULL

TITLE:

Flagella-less borrelia

INVENTOR(S):

Barbour, Alan G., San Antonio, TX, United States Bundoc, Virgilio, San Antonio, TX, United States

PATENT ASSIGNEE(S):

University of Texas System, Austin, TX, United States

(U.S. corporation)

NUMBER KIND DATE ______

APPLICATION INFO.:

PATENT INFORMATION: US 5436000 19950725 APPLICATION INFO.: US 1991-641143 19910111 (7)

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Sidberry, Hazel F.

LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 1 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

23 Drawing Figure(s); 14 Drawing Page(s)

LINE COUNT:

ANSWER 96 OF 110 USPATFULL

ACCESSION NUMBER: 95:29292 USPATFULL

TITLE: INVENTOR(S): Viruses expressing chimeric binding proteins Ladner, Robert C., Ijamsville, MD, United States Guterman, Sonia K., Belmont, MA, United States Roberts, Bruce L., Milford, MA, United States Markland, William, Milford, MA, United States

Ley, Arthur C., Newton, MA, United States Kent, Rachel B., Boxborough, MA, United States

PATENT ASSIGNEE(S):

Protein Engineering Corporation, Cambridge, MA, United

States (U.S. corporation)

NUMBER KIND DATE -----

PATENT INFORMATION:

US 5403484 19950404 US 1993-9319 19930126 (8)

APPLICATION INFO.: RELATED APPLN. INFO.:

Division of Ser. No. US 1991-664989, filed on 1 Mar 1991, now patented, Pat. No. US 5223409 which is a continuation-in-part of Ser. No. US 1990-487063, filed

on 2 Mar 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-240160, filed

on 2 Sep 1988, now abandoned

NUMBER DATE -----

PRIORITY INFORMATION:

WO 1989-3731 19890901

DOCUMENT TYPE:

Utility

PRIMARY EXAMINER:

Hill, Jr., Robert J.

ASSISTANT EXAMINER: LEGAL REPRESENTATIVE: Cooper, Iver P.

Ulm, John D.

NUMBER OF CLAIMS:

49

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

16 Drawing Figure(s); 16 Drawing Page(s)

14368 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 97 OF 110 USPATFULL

ACCESSION NUMBER: 95:13604 USPATFULL

TITLE:

TITLE: Avirulent microbes and uses therefor INVENTOR(S): Gurtiss, III, Roy, St. Louis, MO, United States PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States (U.S. corporation)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of

Ser. No. US 1987-58360, filed on 4 Jun 1987, now

abandoned Utility

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Low, Christopher S. F.
LEGAL REPRESENTATIVE: Rogers, Howell & Haferkamp

NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 8 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT: 2106

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 98 OF 110 USPATFULL

ACCESSION NUMBER: 95:11759 USPATFULL

TITLE: Avirulent microbes and uses therefor:

Salmonella typhi

INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States Kelly, Sandra M., St. Louis, MO, United States

PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States

(U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5387744 19950207 APPLICATION INFO.: US 1993-88394 19930707 (8)

DISCLAIMER DATE: 20110315

RELATED APPLN. INFO.: Continuation of Ser. No. US 1992-975892, filed on 13

Nov 1992, now abandoned which is a continuation of Ser. No. US 1990-612001, filed on 9 Nov 1990, now abandoned

which is a continuation-in-part of Ser. No. US

1988-200934, filed on 1 Jun 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned, said Ser. No. US -612001 which is a continuation-in-part of Ser. No. US 1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Low, Christopher S. F.
LEGAL REPRESENTATIVE: Rogers, Howell & Haferkamp

NUMBER OF CLAIMS: 11 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT: 2718

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 99 OF 110 USPATFULL

ACCESSION NUMBER: 94:90955 USPATFULL

TITLE: Membrane expression of heterologous genes

INVENTOR(S): Niesel, David W., League City, TX, United States Moncrief, J. Scott, Galveston, TX, United States Phillips, Linda H., Galveston, TX, United States

PATENT ASSIGNEE(S): Board of Regents, The University of Texas, Austin, TX,

United States (U.S. corporation)

NUMBER KIND DATE

______ 19941018

US 1991-792525 Utility PATENT INFORMATION: 19911115 (7) APPLICATION INFO.:

DOCUMENT TYPE:

Schwartz, Richard A. PRIMARY EXAMINER: PRIMARY EXAMINER: Schwartz, Ri ASSISTANT EXAMINER: Guzo, David

LEGAL REPRESENTATIVE: Arnold, White & Durkee

24 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

12 Drawing Figure(s); 11 Drawing Page(s) NUMBER OF DRAWINGS:

1390 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 100 OF 110 USPATFULL

94:84349 USPATFULL ACCESSION NUMBER:

DNAs encoding Treponema pallidum antigens TITLE: Norgard, Michael V., Plano, TX, United States INVENTOR(S): Board of Regents, The University of Texas System, PATENT ASSIGNEE(S):

Austin, TX, United States (U.S. corporation)

DATE KIND NUMBER _____ US 5350842 19940927 PATENT INFORMATION: 19920831 (7) US 1992-940245 APPLICATION INFO.:

20060919 DISCLAIMER DATE:

Continuation of Ser. No. US 1986-913724, filed on 30 RELATED APPLN. INFO.:

Sep 1986, now patented, Pat. No. US 4868118 And a continuation-in-part of Ser. No. US 1988-235351, filed

on 23 Aug 1988, now abandoned

Utility DOCUMENT TYPE:

Schwartz, Richard A. PRIMARY EXAMINER:

LeGuyader, J. ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE: Arnold, White & Durkee

15 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

10 Drawing Figure(s); 8 Drawing Page(s) NUMBER OF DRAWINGS:

1871 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 101 OF 110 USPATFULL

ACCESSION NUMBER: 94:82162 USPATFULL

Expression of proteins on bacterial surface TITLE:

Georgiou, George, 11501 Juniper Ridge Dr., Austin, TX, INVENTOR(S):

United States 78759

Francisco, Joseph A., Austin, TX, United States Earhart, Charles F., Austin, TX, United States

Georgiou, George, Austin, TX, United States (U.S. PATENT ASSIGNEE(S):

individual)

NUMBER KIND DATE ______

US 5348867 19940920 PATENT INFORMATION: 19911115 (7) US 1991-794731 APPLICATION INFO .:

Utility DOCUMENT TYPE:

Hill, Jr., Robert J. Allen, Marianne Porta PRIMARY EXAMINER: ASSISTANT EXAMINER: Arnold, White & Durkee LEGAL REPRESENTATIVE:

19 NUMBER OF CLAIMS: EXEMPLARY CLAIM: 1,2

11 Drawing Figure(s); 10 Drawing Page(s) NUMBER OF DRAWINGS:

1400 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 102 OF 110 USPATFULL 1.3

ACCESSION NUMBER: 94:71123 USPATFULL

Yersinia INV nucleic acids TITLE:

INVENTOR(S): Isberg, Ralph R., Brookine, MA, United States

Miller, Virginia, Los Angeles, CA, United States Falkow, Stanley, Portola Valley, CA, United States

The Board of Trustees of Leland Stanford Jr. PATENT ASSIGNEE(S):

University, Stanford, CA, United States (U.S.

corporation)

NUMBER KIND DATE ----- -----

PATENT INFORMATION: US 5338842 19940816 US 1992-890317 19920522 APPLICATION INFO.:

RELATED APPLN. INFO.: Continuation of Ser. No. US 1990-559904, filed on 30

Jul 1990, now abandoned which is a continuation-in-part of Ser. No. US 1989-340375, filed on 19 Apr 1989 which is a continuation-in-part of Ser. No. US 1985-761222,

(7)

filed on 31 Jul 1985, now abandoned

DATE NUMBER -----

WO 1990-US2131 19900418 PRIORITY INFORMATION:

DOCUMENT TYPE: Utility

Schwartz, Richard A. PRIMARY EXAMINER: ASSISTANT EXAMINER: Mosher, Mary E.

LEGAL REPRESENTATIVE: Flehr, Hohbach, Test, Albritton & Herbert NUMBER OF CLAIMS: 15

EXEMPLARY CLAIM: LINE COUNT: 1821

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 103 OF 110 USPATFULL

ACCESSION NUMBER: 94:35369 USPATFULL

TITLE: Oligosaccharide conjugate vaccines
INVENTOR(S): Porro, Massimo, Siena, Italy
PATENT ASSIGNEE(S): American Cyanamid Company, Wayne, NJ, United States

(U.S. corporation)

KIND DATE NUMBER

PATENT INFORMATION: 19940426 19920730 US 5306492 US 1992-921678 19920730 (7) APPLICATION INFO.:

Division of Ser. No. US 1990-590649, filed on 28 Sep RELATED APPLN. INFO.:

1990, now patented, Pat. No. US 5153312

DOCUMENT TYPE: Utility PRIMARY EXAMINER: Kim, Kay K. LEGAL REPRESENTATIVE: Dow, Kenneth J.

NUMBER OF CLAIMS: 2 EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)

LINE COUNT: 1422

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 104 OF 110 USPATFULL

ACCESSION NUMBER: 94:22076 USPATFULL

TITLE: Avirulent microbes and uses therefor:

salmonella typhi

INVENTOR(S): Curtiss, III, Roy, St. Louis, MO, United States PATENT ASSIGNEE(S): Washington University, St. Louis, MO, United States

(U.S. corporation)

NUMBER KIND DATE -----PATENT INFORMATION: US 5294441 19940315

US 1991-785748 19911107 (7) APPLICATION INFO.:

Continuation-in-part of Ser. No. US 1990-612001, filed RELATED APPLN. INFO.:

on 9 Nov 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1988-200934, filed

on 1 Jun 1988, now abandoned which is a

continuation-in-part of Ser. No. US 1987-58360, filed on 4 Jun 1987, now abandoned , said Ser. No.

which is a continuation-in-part of Ser. No. US

1988-251304, filed on 3 Oct 1988, now abandoned which is a continuation-in-part of Ser. No. US 1987-106072,

filed on 7 Oct 1987, now abandoned

DOCUMENT TYPE: Utility

Low, Christopher S. F. PRIMARY EXAMINER: LEGAL REPRESENTATIVE: Rogers, Howell & Haferkamp

12 NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS: 6 Drawing Figure(s); 6 Drawing Page(s)

LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 105 OF 110 USPATFULL

94:20081 USPATFULL ACCESSION NUMBER:

TITLE: Peptide and protein fusions to thioredoxin and

thioredoxin-like molecules

INVENTOR(S):

McCoy, John, Reading, MA, United States LaVallie, Edward R., Tewksbury, MA, United States Genetics Institute, Inc., Cambridge, MA, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER KIND

US 5292646 19940308 US 1992-921848 19920728 (7) PATENT INFORMATION:

APPLICATION INFO.:

DISCLAIMER DATE: 20101214

Continuation-in-part of Ser. No. US 1991-745382, filed RELATED APPLN. INFO.: on 14 Aug 1991 which is a continuation-in-part of Ser.

No. US 1991-652531, filed on 6 Feb 1991, now abandoned

DOCUMENT TYPE: Utility

Wax, Robert A. PRIMARY EXAMINER: ASSISTANT EXAMINER: Bugaisky, G. E.

Meinert, Maureen C., DesRosier, Thomas J., Eisen, Bruce LEGAL REPRESENTATIVE:

Μ.

NUMBER OF CLAIMS: 24 21 EXEMPLARY CLAIM:

PATENT ASSIGNEE(S):

7 Drawing Figure(s); 12 Drawing Page(s) NUMBER OF DRAWINGS:

1565 LINE COUNT:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 106 OF 110 USPATFULL

93:78691 USPATFULL ACCESSION NUMBER:

Virulence associated proteins in Borrelia burgdorferi TITLE:

Norris, Steven J., Houston, TX, United States INVENTOR(S):

Barbour, Alan G., San Antonio, TX, United States Board of Regents, The University of Texas System,

Austin, TX, United States (U.S. corporation)

KIND DATE NUMBER US 5246844 19930921 US 1991-781355 19911022 (7) PATENT INFORMATION: APPLICATION INFO.:

Utility DOCUMENT TYPE:

Nucker, Christine M. PRIMARY EXAMINER:

ASSISTANT EXAMINER: Dubrule, Chris LEGAL REPRESENTATIVE: Arnold, White & Durkee

NUMBER OF CLAIMS: 22 EXEMPLARY CLAIM: 1

PATENT ASSIGNEE(S):

NUMBER OF DRAWINGS: 10 Drawing Figure(s); 14 Drawing Page(s)

LINE COUNT: 1705

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 107 OF 110 USPATFULL

ACCESSION NUMBER: 93:69992 USPATFULL

TITLE: Yersinia ail nucleic acids

INVENTOR(S): St. Geme, III: Joseph W., Redwood City, CA, United

States

Falkow, Stanley, Portola Valley, CA, United States

Isberg, Ralph, Brookline, MA, United States Miller, Virginia, Van Nuys, CA, United States The Board of Trustees of Leland Stanford Jr. University, Stanford, CA, United States (U.S.

corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 5239066 19930824 APPLICATION INFO.: US 1991-644826 19910123 (7)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1990-559904, filed

on 30 Jul 1990, now abandoned which is a

continuation-in-part of Ser. No. US 1989-340375, filed on 19 Apr 1989 which is a continuation-in-part of Ser. No. US 1985-761222, filed on 31 Jul 1985, now abandoned

DOCUMENT TYPE: Utility

PRIMARY EXAMINER: Schwartz, Richard A. ASSISTANT EXAMINER: Mosher, Mary E.

LEGAL REPRESENTATIVE: Flehr, Hohbach, Test, Albritton & Herbert

NUMBER OF CLAIMS: 15 EXEMPLARY CLAIM: 1 LINE COUNT: 2096

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 108 OF 110 USPATFULL

ACCESSION NUMBER: 93:52487 USPATFULL

TITLE: Directed evolution of novel binding proteins INVENTOR(S): Ladner, Robert C., Ijamsville, MD, United States

Guterman, Sonia K., Belmont, MA, United States Roberts, Bruce L., Milford, MA, United States Markland, William, Milford, MA, United States Ley, Arthur C., Newton, MA, United States Kent, Rachel B., Boxborough, MA, United States

PATENT ASSIGNEE(S): Protein Engineering Corp., Cambridge, MA, United States

(U.S. corporation)

PATENT INFORMATION: US 5223409 19930629 APPLICATION INFO.: US 1991-664989 19910301 (7)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1990-487063, filed on 2 Mar 1990, now abandoned And a continuation-in-part

of Ser. No. US 1988-240160, filed on 2 Sep 1988, now

1

DOCUMENT TYPE: abandoned Utility

PRIMARY EXAMINER: Hill, Jr., Robert J.

ASSISTANT EXAMINER: Ulm, John D. LEGAL REPRESENTATIVE: Cooper, Iver P.

NUMBER OF CLAIMS: 66

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 16 Drawing Figure(s); 16 Drawing Page(s)

LINE COUNT: 15410

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 109 OF 110 USPATFULL

92:82892 USPATFULL ACCESSION NUMBER:

Oligosaccharide conjugate vaccines Porro, Massimo, Siena, Italy TITLE:

INVENTOR(S):

American Cyanamid Company, Wayne, NJ, United States PATENT ASSIGNEE(S):

(U.S. corporation)

NUMBER DATE KIND ----- -----PATENT INFORMATION: US 5153312 19921006

APPLICATION INFO.: US 1990-590649 19900928 (7)

DOCUMENT TYPE:

DOCUMENT TYPE:

PRIMARY EXAMINER:

ASSISTANT EXAMINER:

LEGAL REPRESENTATIVE:

Dow, Kenneth J.

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EXEMPLARY CLAIM:

6 Drawing Figure(s); 4 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 1491

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 110 OF 110 USPATFULL

ACCESSION NUMBER: 72:29908 USPATFULL

TITLE:

PROCESS FOR OBTAINING AND PRESERVING STABLE BACTERIAL

VARIANTS

INVENTOR(S): Thuillier, Yvonne, Paris, France PATENT ASSIGNEE(S): Albert Rolland S.A., Paris, France

NUMBER KIND DATE

PATENT INFORMATION: US 3669846 19720613 19700323 (5) APPLICATION INFO.: US 1970-21765

NUMBER DATE ______

PRIORITY INFORMATION: GB 1969-15672 19690325

DOCUMENT TYPE: Utility
PRIMARY EXAMINER: Monacell, A. Louis
ASSISTANT EXAMINER: Hensley, Max D.
LEGAL REPRESENTATIVE: Bacon & Thomas

10 NUMBER OF CLAIMS:

NUMBER OF DRAWINGS: 20 Drawing Figure(s); 11 Drawing Page(s)

LINE COUNT: 914

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 12 OF 16 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.DUPLICATE 7

- AN 1988:417215 BIOSIS
- DN BA86:79827
- TI INTACT MOTILITY AS A **SALMONELLA-TYPHI** INVASION-RELATED FACTOR.
- AU LIU S-L; EZAKI T; MIURA H; MATSUI K; YABUUCHI E
- CS DEP. MICROBIOLOGY, GIFU UNIV. SCH. MED., 40 TSUKASA-MACHI, GIFU 500, JAPAN.
- SO INFECT IMMUN, (1988) 56 (8), 1967-1973. CODEN: INFIBR. ISSN: 0019-9567.
- FS BA; OLD
- LA English
- AΒ Invasiveness of Salmonella typhi was investigated. At first, we introduced Tn5 into the chromosome of a wild-type S. typhi strain, GIFU 10007, and screened the independent Tn5 insertion mutants for noninvasive (Inv-) strains. During the first half of this work, we obtained 4 Inv- strains from 1,338 independent Tn5 mutants. The four were either nonflagellate (Fla-), monmotile (Mot-), or nonchemotactic (Che-). We then isolated more Fla-, Mot-, or Che- mutants and examined the invasiveness of these mutants. Sixty-three spontaneous or Tn5 insertion motility mutants, i.e., Fla-, Mot-, or Che-, were independently isolated from the wild-type strain GIFU 10007; all of them were noninvasive. Motile revertants isolated from some of these mutants showed the same invasiveness as the parent strain. P22-mediated transductional crosses were carried out between some of the motility mutants (as the recipients) and the Fla- reference strains of S. typhimurium with known deletion sites on the genome (as the donors). The mutational sites of the S. typhi mutants were assigned almost evenly to the three flagellar gene regions (regions I, II, and III) of S. typhimurium. The invasiveness of the motile recombinants obtained from the transduction assays was examined. The restoration of intact motility resulted in the restoration of invasiveness. Thus, we conclude that intact motility is an invasion-related factor of S. typhi. The relationship of Vi antigen to the invasiveness of S. typhi was also studied. Vi-negative mutnts with intact motility remained invasive, whereas all 63 Inv- spontaneous or Tn5 mutants were Vi positive. Therefore, Vi antigen was not related to the invasiveness of S. typhi.